



JAN'S

No1
SUPPLIER

Used & Surplus
BUOYS

www.CastleHills.no



Castle Hills

BY JAN VINDENES

JAN'S

Used & Surplus

BUOYS

2025 EDITION

A collection of drawings, images and measurements of the series of buoys that we have in stock, used and unused.

More than four hundred different models available for sale, and included in this handbook, with full measurements and data sheets, and a technical drawing representing each of them, crafted by us, and based on the information from original factory drawings.

Made for you to enjoy for free, and assist you on your daily work and operations.

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INDEX

Index	4
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ABOUT US

History	6
Jan Vindenes	7
The Tax Protest	8
Plastic Whale	10
Pokemon Go Statue	12
Global Locations	14
Products	16

INDUSTRIES

Mooring	19
Aquaculture	21
Offshore	23

SURFACE BUOYS

Navigation	25
NAV 01	26
NAV 02	27
NAV 03	28

Regular Surface	30
Multi/Purpose	32
SBSB	33
A Series	34
Aqua Series	36
LB Series	39
LSB Series	40
Flat Top Activa FFB	41
4010 kgs Foam Filled	42
Foam Filled	43

SURFACE BUOYS

Modular Surface	46
Activa FBB Smart Top	48
Activa FBB	50
APB Series	53
APB XL Series	55
Calm Buoys	58

SUBSURFACE BUOYS

Regular Subsurface	60
Spherical Buoys	62
Spherical Floats	64
CSB	65
Anchor Pendant	66

Modular Subsurface	70
MCMB	72
CMB	76
Donut Buoy	77
MB 17	78
MB 23	79
MB 30	80
MSB 111	81
MSB 162	82
MSB 180	83
MSB 234	84
SMB Series	92
SSB 200	94
SSB 850	99

Distribution Subsurface	102
Cable Floats	104
Riser Floats	105
Modular Tie In	108
Regular Tie In	110

FENDERS

Fenders in Stock	115
World Record D Fender	119

DECK EQUIPMENT

Deck & Towing Equipment	121
-------------------------	-----

DECORATION

Decoration	123
------------	-----

CHAINS

Ship Chains in Stock	125
Offshore Chains in Stock	127

ANCHORS

Anchors in Stock	131
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THE PRESENT: Breaking Records

2023 - Building The Castle - A new Head Office for Castle Hills

Our Family has been famous since the Middle Ages for building castles, like the Audunsborg Castle. We wanted to build a new one. The construction of the new castle began in 2023.

2022 - Delivering over 2000 tones of Chain to Rescue a Tanker Ship

In the year 2022 Castle Hills made a historic international delivery; More than 2000 tones of chain delivered to rescue giant tanker ship of class FSO, with the value of thirty millions.

2010 - 2020: Rise to Fame

2020 - Norwegian Prime Minister and TV visits Jan Vindenes' Monument

After discovering the dead "plastic whale" in 2017, a shocking sign of ocean pollution, 3 years later Jan built a monument as a reminder. This event was omnipresent in television.

2017 - Dumping 25 Tones of Chains in the Tax Office

The rise to fame of Jan Vindenes began way earlier than 2017, but this year shocked global newspapers for his particular protest against wealth tax: Paying tax with 25 tones of ship chain.

1980 - 2010: A Family Firm

2010s - Strong Presence in the maritime market

After half a lifetime in the maritime industry, the Vindenes' Family Firm, was unmistakably an expert and leading supplier of maritime equipment for ships and offshore rigs.

1980s - The Vindenes Family starts it's own Corporation

With the sudden rise of the Oil & Gas Industry, an extremely high demand for maritime equipment made suppliers very profitable. Because of this, Jarle, Jan's father, decided to join the market.

1960 - 1970: Hard Times

1970s - A Freight Ship named Mona joins the Vindenes Family

Life in Norway was hard at the time, and one fishing boat wasn't enough. Karl Olai acquired a freight ship and gave it the name "Mona" this boat was essential for bringing food to the family.

1960s - A Humble, Hard Working Family dedicated to Fishing

On the times of Jan's Grandfather the family worked in fishing. Thanks to owning a fishing boat, Karl Olai Vindenes he could feed his 11 siblings, after the early death of his father.

1300 - 1900: Strile People

1900s - The Peak of the relevance of the Strile People

In the 1900s the Strile People peaked in population, maintaining the 600 years lasting Stril Trade Route that supplied fish to the city of Bergen, directly from the cold seas of Sotra.

1300s - The Origin and Heritage of the Strile People, our people

Strile People refer to humble and hard working fishermen and sailors who lived in the island of Sotra and nearby. We can trace 13 generations of hard working Strils, up to Rasmus Vindenes.

1100 - 1300: The Origins

1300s - Our Family's Castle and our Ancestors in Nobility

Our obsession with building castles began around 700 years ago. Our ancestor, the Duke of Iceland, Audun Huggleiksson built our first castle, the Audunsborg Castle, near Bergen.

1260s - Reign of Magnus VI Haakonsson, our Relative

The Legacy of our family can be traced back to Magnus VI, King of Norway, and one of our family relatives. He was called "The Legislator" for enacting an array of legal changes in the nation.

1200s - The oldest known ancestors of the Vindenes Family

Huggleik from Alhus was a noble with the title of "Lord" and was a prominent businessman and magnate with over 30 farms in Jølster, Norway. He lived in the Court of the King Håkon Håkonson.

1100s - Post Viking Era in Sotra, our parent island

After the Fall of the Vikings, our ancestors in Sotra focused on fishing and farming. Large stone monuments are kept from this time, and their purpose is still uncertain.



Our Founder – Jan Vindenes



Jan Vindenes is known as Mr. Anchor & Chain after 30 years in the industry. He started working at his fathers local scrap trading company in 1992 and made the company world famous. His Anchor & Chain handbook was printed in 75,000 copies and is in daily use within the whole maritime sector. In Norway he became an legend when he loaded a truck with 25 tons of chains and dumped it at the tax collector as a payment of his capital tax.

In 2016 he made the world first Pokemon Go Statue and made a video that was published all over the world from REUTERS, REDDIT and hundreds of others. In 2020 he raised a whale monument in his hometown Vindenes, at Sotra, to honor the “plastic whale” that stranded on the beach. SKY NEWS made a documentary with Mr. Jan Vindenes to focus the problem with plastic in ocean, aired worldwide in 160 countries.

Top Stories:



Jan and his famous monument, the first Pokemon Go Statue



Jan and the Prime Minister at the Plastic Whale Monument



Jan covering the local Tax Office with 25 tons of chain



Top Stories – The Tax Protest

Norway is famous for many things, such as the fjords, the northern lights, and aggressively high taxes. Besides having the largest sovereign fund in the World, with over 1 Trillion US dollars accumulated, it is one of the few 12 nations to enforce Wealth Tax.

Besides having one of the World's highest income taxes, VAT, high corporate taxes, and one of the largest oil reserves to exist in this planet, apparently that wasn't enough for the Norwegian Government. It needed to tax all residents 1% of their assets, year after year until you are left with nothing.

Funnily enough, the law establishing wealth tax leaves room to several interpretations, and Jan Vindenes knew that.

Dumping 250 tonnes of chain at the Tax Office:

There is no law stating that you can not pay your wealth taxes with 84mm stud link anchor chain.

Taking this fact in mind, Jan Vindenes, a man of curiosity, was decided to test this theory and to evaluate up to what extent this was possible.

Jan and his hard working team spent the entire morning preparing for such great event, collecting 250 tonnes of anchor chain, putting it in crane trucks and delivering it to the local tax office. The authorities took no time to react, once the trucks were approaching the government facilities several newspapers were alerted, and approached the scene to find out what was going on.

This is the moment when our Founder and General Manager Jan Vindenes began his rise to fame as a businessman, and as a freedom fighter. Or at least, a well-known wealth tax fighter.

Unfortunately the tax authorities didn't know how to appreciate 250 tonnes of chain and did not accept it as a tax payment, but at least it made the Norwegian people aware of the importance of fighting for what you think is fair.



Top Stories – The Plastic Whale

In the year 2019 General Manager Jan Vindenes built a monument to commemorate the 2017 Plastic Whale incident, inaugurated by the Norwegian Prime Minister, other cabinet members and the Norwegian authorities.

The goal of this ceremony and its sculpture was to set a permanent reminder of the effects of plastic pollution over the environment.

The story began in 2017, when a dying whale was found in the coasts of Vindenes, just 50 meters away from Jan's house. The shocking component of the story was found by the local authorities, after removing thirty plastic bags from the whale's stomach. For countless days this whale had been navigating the oceans while suffering, disoriented and waiting to die, as a direct consequence of human pollution.

Spreading awareness:

This shocking incident, and all the national and international attention was the perfect opportunity for Jan Vindenes to spread a message of awareness. After participating in the famous documentary "A Plastic Whale" by SKY NEWS televised across 180 countries, he decided in 2019 to raise a monument to keep alive the memory of the whale, and the message of sustainable development.

In 2024 Jan Vindenes and his Plastic Whale Monument were honored in the euro banknotes printed by the European Central Bank.





WELCOME TO THE
POKÉMON
GO



kerp

Top Stories – The Pokemon Go Statue

It was the year 2016, and the popular game Pokemon Go just launched. The game was a hit across cities all over the World, but in the remote and isolated island of Sotra trying the game that everyone was talking about was not that easy:

You had to drive for tens of kilometers before you could find a single pokestop right before the entrance to Bergen, a major city.

Jan wasn't happy with this, and decided to do what any reasonable man would do in this situation: Build a 2 tonnes pokeball statue, organize an opening ceremony, and wait until Niantic (Pokemon Go owner) noticed it and addressed the issue.

The inauguration of the Pokemon Go statue reached one million views on Facebook in mere hours, and was documented in some of the largest newspapers not only in Bergen, but in Norway. The story also went viral on Reddit, reaching more than 3 million likes in days.

Niantic's response:

Jan's initiative didn't go unnoticed, it took the company Niantic barely a few weeks to give Jan what he wanted: A pokestop right outside his house.

Because of course, if you are going to build a giant pokemon statue with the potential of becoming a pokestop, why not building it 30 meters away from you?





Castle Hills
BY JAM FINGER'S

Contact Us – Global Locations



MANAGEMENT

Office of the CEO and General Manager of Castle Hills.

+47 – 55 90 90 20

WAREHOUSE

Check if an item is in Stock in Norway or any worldwide location.

Castle@CastleHills.no

ADMINISTRATION

For inquiries regarding internal or external corporate affairs.

OIP@CastleHills.no

MANUFACTURE

Place an order to our factories and manufactures.

Shanghai@CastleHills.no

SALES

Contact the Head Office in Sotra for anchor or chain.

Sotra@CastleHills.no

BERGEN

Contact the Head Office in Norway.

Bergen@CastleHills.no

ROTTERDAM

Country Manager for Germany and equipment in Stock in Rotterdam.

Rotterdam@CastleHills.no

DUBAI

Oil Industry Products and equipment for Oil & Gas in the Middle East.

Dubai@CastleHills.no

SINGAPORE

Country Manager for Singapore and equipment in APAC.

Singapore@CastleHills.no

SHANGHAI

Country Manager for China and equipment in Stock in Shanghai.

Shanghai@CastleHills.no

MANILA

Country Manager for the Philippines and equipment in Stock in Manila.

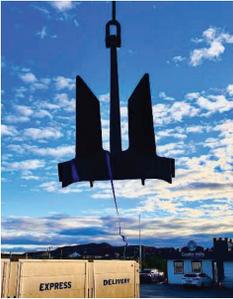
Manila@CastleHills.no

MADRID

Contact the Department of Madrid for Spanish speaking employees.

Madrid@CastleHills.no





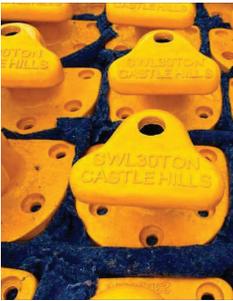
Anchors



Chains



Fenders



Bollards



Buoys



D Fenders



**Oil Rig
Anchors**



**Panama
Chocks**



**Chain
Gypsies**



Decking



Winches



Wire Rope



Shackles



Swivels



Decoration



**Chain
Sinkers**



**ISO Tank
Containers**



**MAFI Roll
Trailers**



Our Industries – Mooring

MOORING BUOYS FJORD INSTALLATION

Mooring buoys are used every day by cruise ships and ferries. They showcase the stunning Norwegian landscape to thousands of tourists every day. And they needed new ones.

Installing the New Surface Buoys

We have arranged the installation using an offshore operations vessel OSV. We have installed the three buoys in less than a day.

Decommissioning the Old Buoys

The old buoys that we have replaced have been decommissioned according to industry standards, in less than 24 hours.

Final Result after the Installation

These are the surface buoys from Castle Hills AS floating in the Norwegian Fjords of Geiranger. They are foam filled and steel coated.





Our Industries – Aquaculture

We specialize on aquaculture buoys made in Norway, in stock both second hand, new and unused pieces.

Main Models in Stock:

Mainly Aqua Series, Activa Series, A Series and APB Series, second hand. Other types of buoys also in stock.





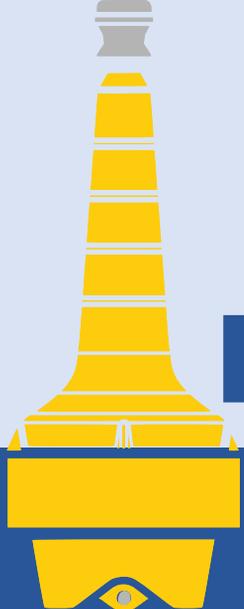
Our Industries – Offshore

Both surface and subsea, modular and regular offshore buoys in stock in Norway, EU and APAC, used and unused. For Offshore Oil & Gas and Offshore Wind.

Main Models in Stock:

We specialize in subsurface modular buoys for the North Sea, but also have in stock distribution buoys such as riser floats, tie in buoys for pipeline deployment, CALM buoys, chain support buoys, and surface buoys.





Navigation Buoys

Navigation Buoys

NAV 01



NAV 02



NAV 03



We specialize on easy to install and low maintenance polyethylene navigation buoys, having a large stock in Norway of second hand and new units.

These navigation buoys can be used in the sea, as well as in ports and narrow waters, or construction sites depending on the intended application.

We can also provide offshore accredited navigation buoys, which are specially popular for the construction of offshore wind farms.

Main Navigation Buoys in Stock:

Ø600 – 1200 mm

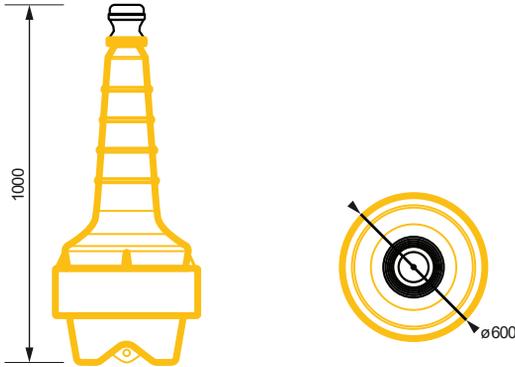
Our most popular second hand navigation buoys in stock in Norway, different sizes for multiple purposes.



Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



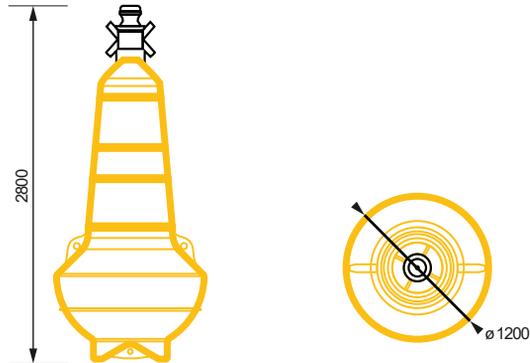
NAV 01 Y – Navigation Buoy



NAV 01 - Y	
Nominal Focal Height	1000
Nominal Draft	350
Weight	55
Lifting Eyes	2
Mooring Eyes	1
Colours	IALA Maritime Buoyage System
Life Expectancy	Up to 20 Years
Lantern Options	M550, M660

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Navigation Buoy – **NAV 02 SM**

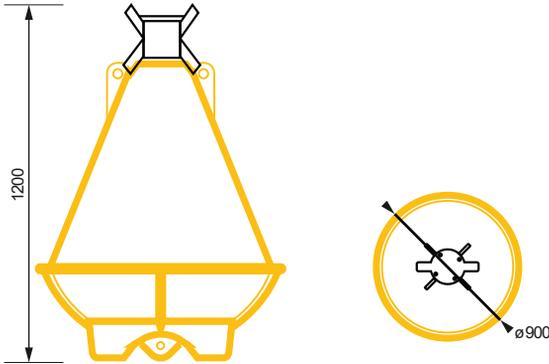


NAV 02 - SM	
Nominal Focal Height	2100
Nominal Draft	470
Weight	195
Lifting Eyes	2
Mooring Eyes	1
Colours	IALA Maritime Buoyage System
Life Expectancy	Up to 20 Years
Lantern Options	M550, M650H, M660, M880 series (or equivalent sized lanterns)

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



NAV 03 SM – Navigation Buoy



NAV 03 - SM	
Nominal Focal Height	1000
Nominal Draft	370
Weight	85
Lifting Eyes	2
Mooring Eyes	1
Colours	IALA Maritime Buoyage System
Life Expectancy	Up to 20 Years
Lantern Options	M550, M650H, M660, M880 series (or equivalent sized lanterns)

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



Navigation Buoys Unused



Used



Navigation Buoys Used



Buoy Lanterns

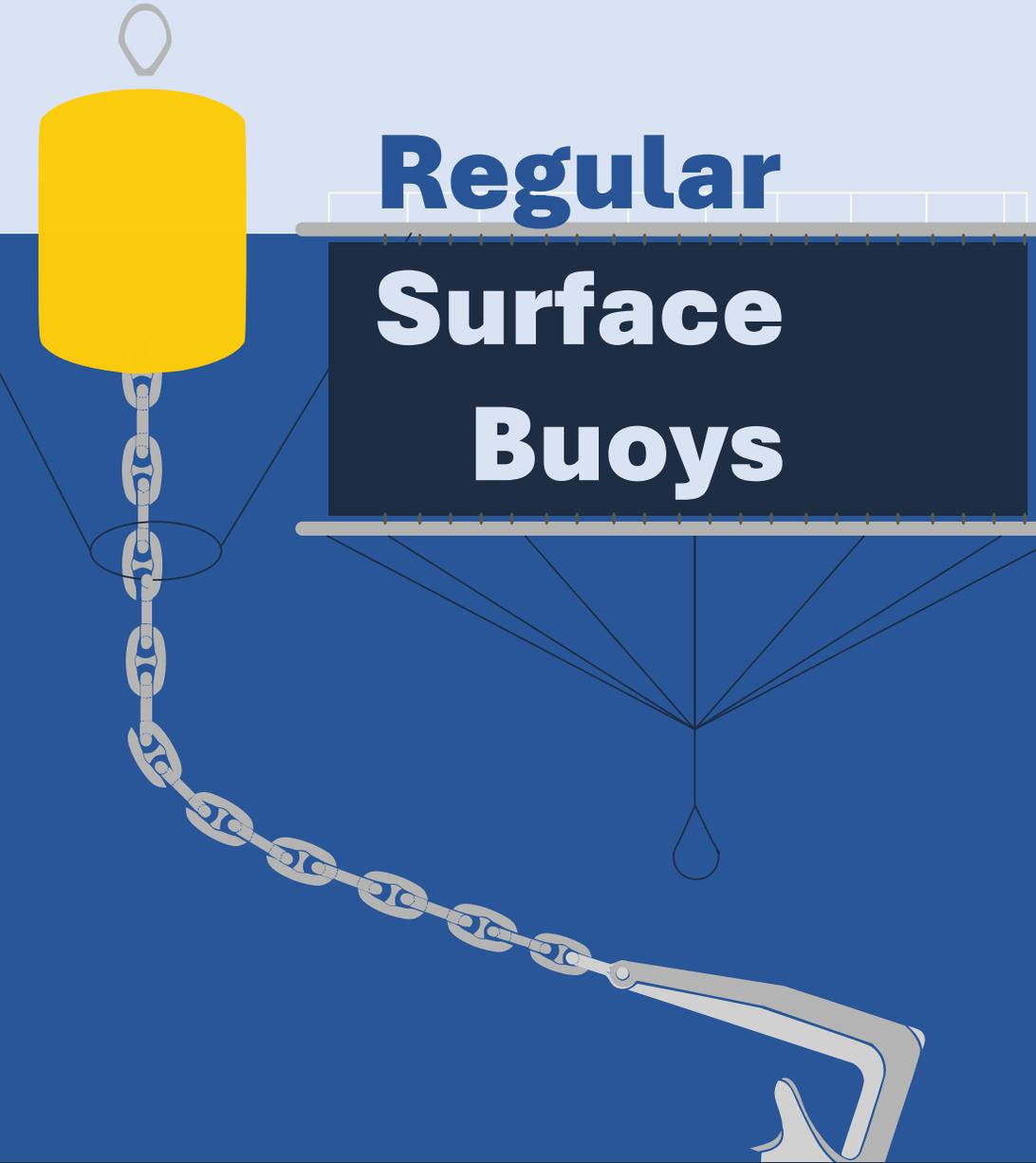
Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



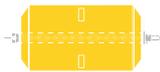
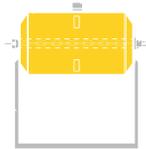
Regular

Surface

Buoys



Regular Single Piece Buoys

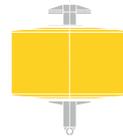
Surface

SBSB

A

Aqua

LB

LSB

Flat Top

Mooring


Regular Surface Buoys in Stock:

Second Hand

Thousands of pieces of used regular surface buoys in stock in Norway, for mooring and aquaculture mainly.



Unused

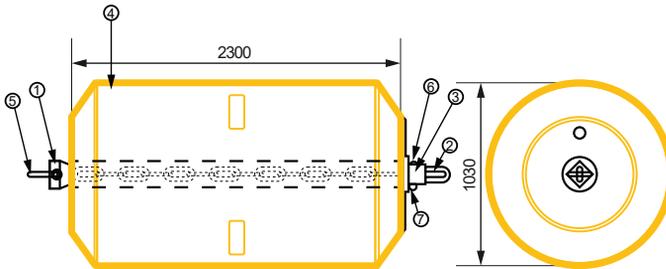
We also have in stock new or unused regular surface buoys in Norway, EU and APAC, and for sale worldwide.

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





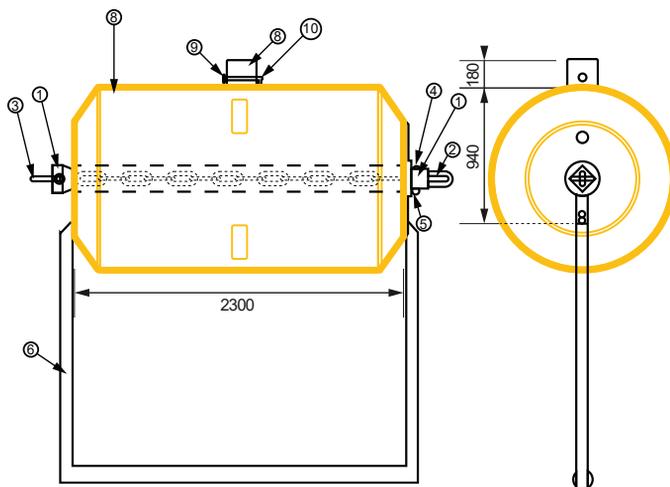
Multi-Purpose – Surface Buoy



ITEM NO.	Description	Material
Net Buoyancy	2208	
Buoyancy	2474	
Weight	266	
1	Sea barrier, Armature	Galvanized Steel
2	Chain 30 mm alloy MBL 90 t	Galvanized
3	Sea barrier, Armature flange	Galvanized Steel
4	Sea Barrier Float, Element	-
5	Gunnebo 60T shackle	-
6	Screw Part-thread - DIN 931 / ISO 4014 - M24 x 180 FZV	Galvanized
7	Nut Trilock - M24 FZV	Galvanized

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Sea Barrier Surface Buoy – SBSB

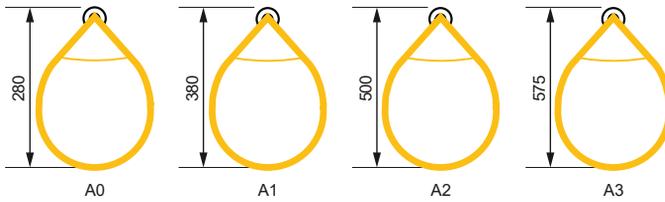


ITEM NO.	Description	Material
Net Buoyancy	1719	
Buoyancy	2258	
Weight	539	
1	Sea barrier, Armature	Galvanized Steel
2	Chain 30 mm alloy MBL 90 t	Galvanized
3	Gunnebo 60T shackle	-
4	Screw Part-thread - DIN 931 / ISO 4014 - M24 x 180 FZV	Galvanized
5	Nut Trilock - M24 FZV	Galvanized
6	Sea Barrier, light steel works	-
7	Sea barrier, Armature flange, for light	Galvanized Steel
8	Sea Barrier Float for light, Element	-
9	Låsebolt Ø16 x 260	316/A4 stainless steel
10	Orepinne Ø6 syrefast	AISI 316

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



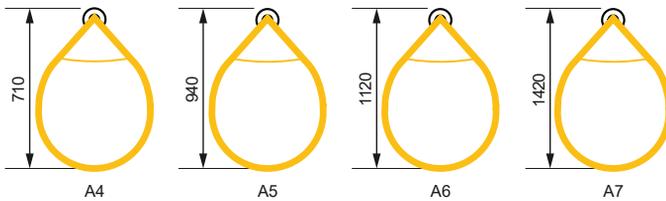
A Series – Aquaculture Buoys



	A0	A1	A2	A3
Net Buoyancy	5.1	12.85	29.9	48.9
Buoyancy	5.7	13	32	52
Weight	0.6	1.15	2.1	3.1
Rec. Load	3.4	7.8	19.2	31.2
Thickness	22	22	25	28

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Aquaculture Buoys – A Series

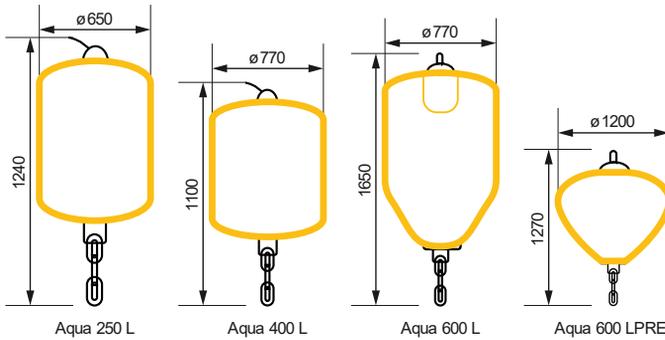


Depth	A4	A5	A6	A7
Net Buoyancy	85.9	206.7	393.7	649
Buoyancy	90	215	405	670
Weight	4.1	8.3	11.3	21
Rec. Load	54	129	243	402
Thickness	28	28	35	40

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



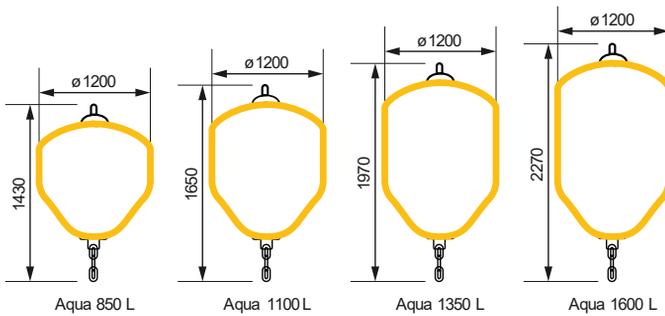
Aqua Series – Aquaculture Hard Shell



	250	400	600	600 PRE
Net Buoyancy	228	400	560	560
Buoyancy	260	445	615	620
Weight	32	45	55	60
Volume	260	450	620	620

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Aquaculture Hard Shell – Aqua Series

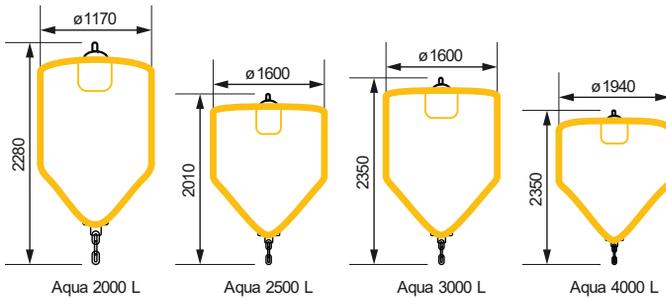


	850	1100	1350	1600
Net buoyancy	800	1035	1262	1510
Buoyancy	873	1130	1380	1640
Weight	73	95	118	130
Volume	873	1130	1380	1640

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



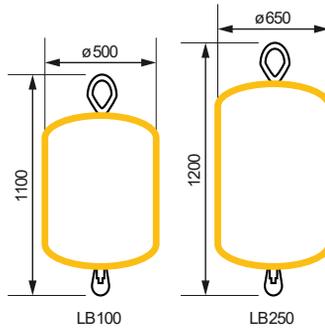
Aqua Series – Aquaculture Hard Shell



	2000	2500	3000	4000
Net buoyancy	1900	2340	2815	3790
Buoyancy	2080	2550	3050	4075
Weight	180	210	235	285
Volume	2020	2550	3050	4075

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Aquaculture Buoys – **LB Series**

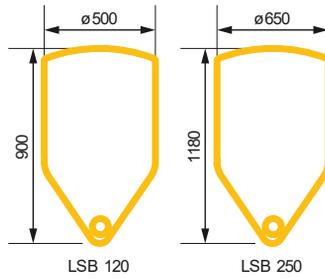


	100	250	
Net Buoyancy	92	225	
Buoyancy	102	250	
Weight of buoy	10	25	
Volume	105	250	
Recommended Load	82	215	

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



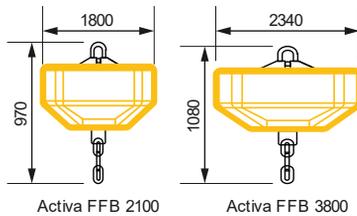
LSB Series – Light Spring Buoys



	120	250
Net Buoyancy	110	230
Buoyancy	120	249
Weight	10	19
Volume	120	250
Eyelet Dia.	50	50
Breaking strength	2500	3500

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Aquaculture – Flat Top Activa FFB

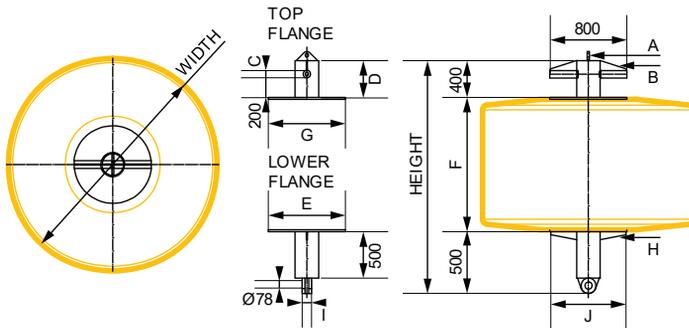


	2100	3800	
Net Buoyancy	1727	3371	
Buoyancy	2100	3800	
Weight	373	429	
Volume	2,420 liters	4,160 liters	
MBL	70	70	

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



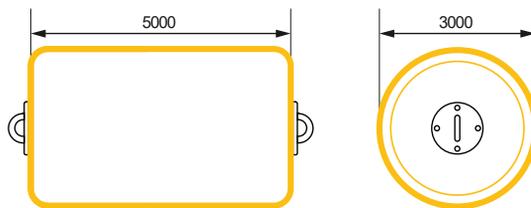
4010 kgs Foam Filled – Mooring Buoys



Name	Description	Dimensions	Material
Net Buoyancy		4010	
Buoyancy		4910	
Weight		900	Q235 Galvanized steel
SWL		55	Q235 Galvanized steel
Width		2200	Q235 Galvanized steel 80 x 10
Height		2505	Q235 Galvanized steel 245 x 12
A	Lifting lug	-	Q235 Galvanized steel
B	Strengthen plate	-	EVA (With surface treatment)
C	Cross tube	$\varnothing 80$	Q235 Galvanized steel
D	Central steel pipe	400	Q235 Galvanized steel
E	Lower flange plate	800	Q235 Galvanized steel
F	Floating body	1350	Zinc
G	Top flange plate	800	
H	Strengthen plate	-	
I	Mooring hole	90	
J	Zinc anode	-	

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Multi-Purpose Buoy – **Foam-Filled**



Foam Filled	
Net Buoyancy	23
Buoyancy	29
Weight	6
Dimensions	Ø3000 mm x 5000 mm

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

BUOYS



**Surface Buoys
Used**



**Surface Buoys
Unused**



**Aqua 250
Used**



**Aqua 600
Used**

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



**Mooring Buoys
Used & New**



**A Series Buoys
Used & New**



**Aqua 850
Used**



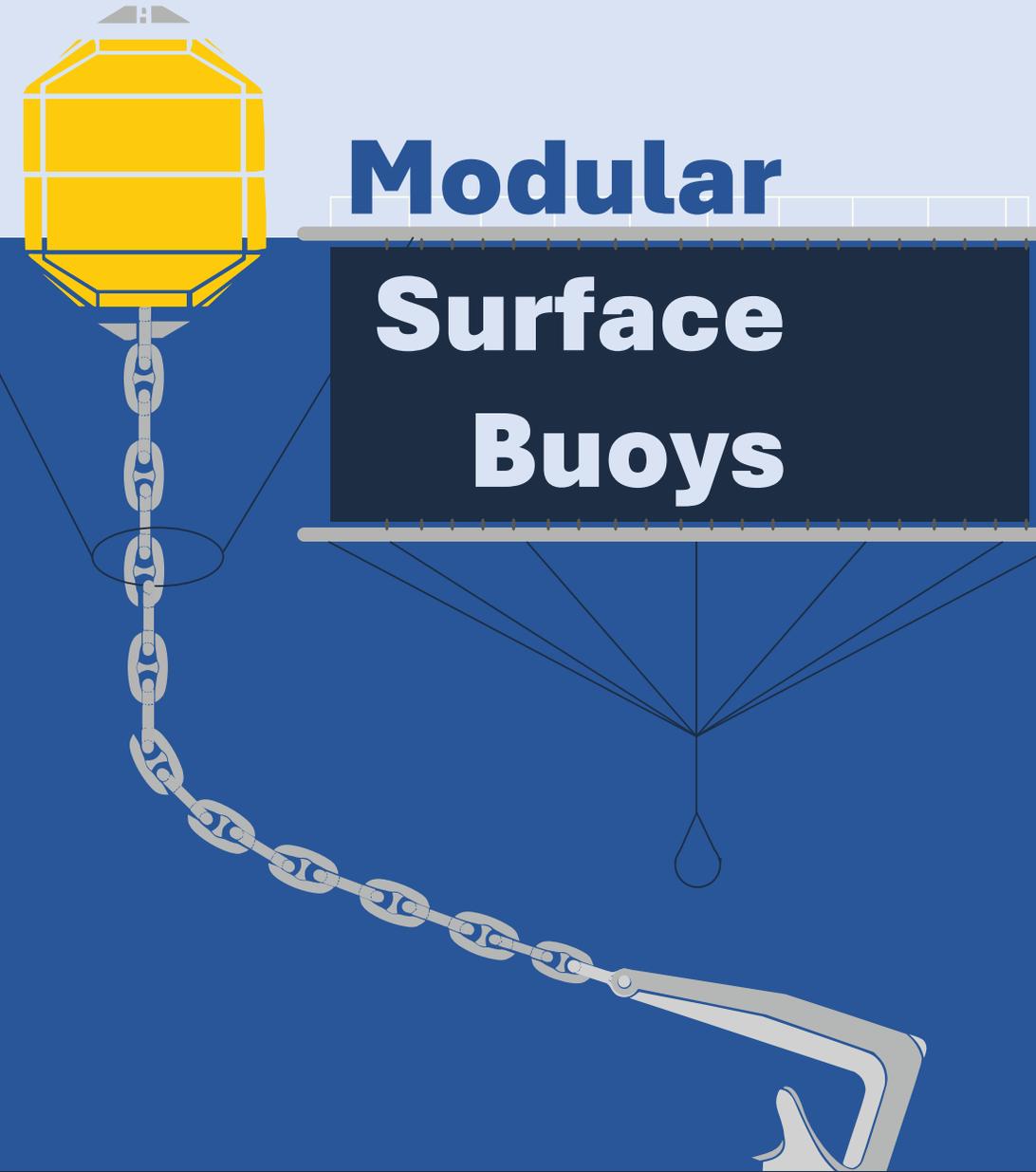
**Active Flat Top
Used & Unused**

Weight unit is Kilograms. All measurements in mm. SWL in T. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



Modular

**Surface
Buoys**



Modular Surface Buoys

**Smart
FBB**



**Activa
FBB**



**APB
Series**



**APB XL
Series**



Modular Surface Buoys have the same use as regular surface buoys, with the convenience of easily adapting the buoyancy and size of your buoy. Since they are divided by modules, these buoys can be built or modified either at the supplier or the customer side.

Main Modular Surface Buoys:

Second Hand

We specialize in Used Buoys, having a wide stock of second hand modular surface buoys, mostly for aquaculture.



First Hand

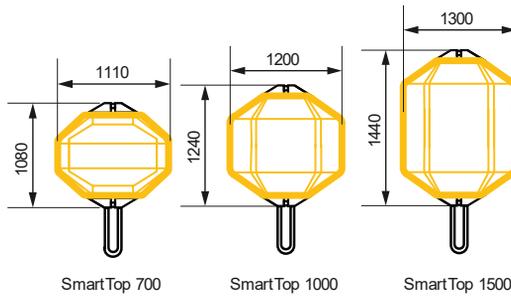
We also have in stock many unused and completely new modular surface buoys.

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





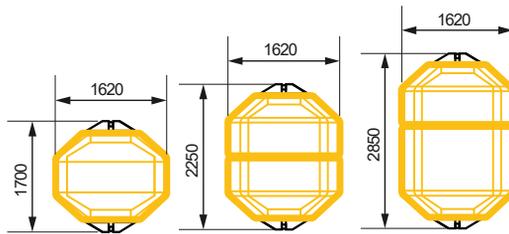
Activa FBB Smart Top – Steel Free



	700	1.000	1.500
Net Buoyancy	658	958	1419
Buoyancy	755	1064	1549
Weight	97	106	130
Volume	831 liters	114 liters	1638 liters
MBL	22	22	22

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Steel Free – **Activa FBB Smart Top**



SmartTop 2000

SmartTop 3300

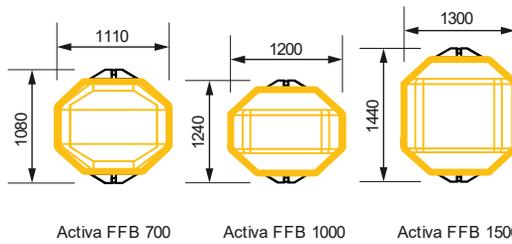
SmartTop 4900

	2000	3300	4900
Net Buoyancy	1918	3130	4569
Buoyancy	2097	3418	4936
Weight	179	288	367
Volume	2221 liters	3615 liters	5174 liters
SWL	14	14	14

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



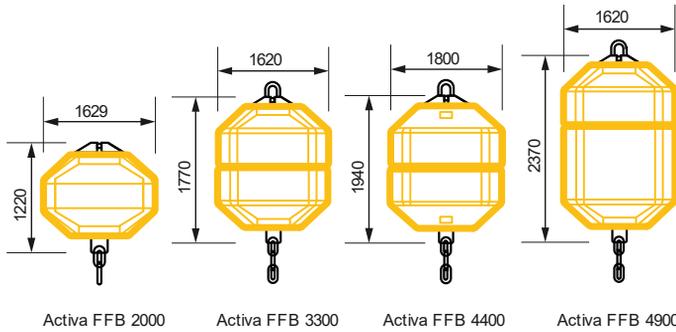
Activa FFB – Aquaculture Buoys



	700	1.000	1.500
Net Buoyancy	658	958	1319
Buoyancy	755	1064	1549
Weight	97	106	130
Volume	831 liters	114 liters	1638 liters
MBL	22	22	22

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Aquaculture Buoys – **Activa FFB**

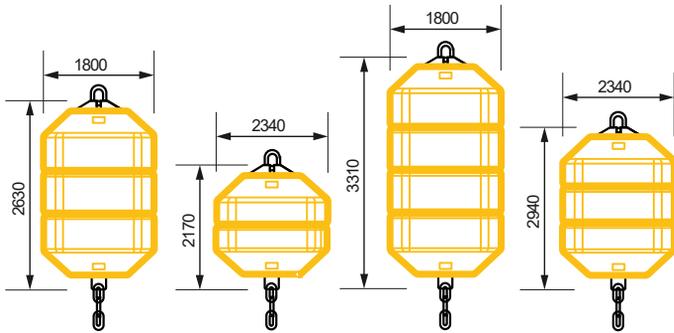


	2.000	3.300	4.400	4.900
Net Buoyancy	1830	990	3810	4430
Buoyancy	2040	3330	4400	4850
Weight	210	340	590	420
Volume	2180 liters	3580 liters	4840 liters	5140 liters
MBL	44,9	44,9	63,2	44,9

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



Activa FFB – Aquaculture Buoys



Activa FFB 6300

Activa FFB 7800

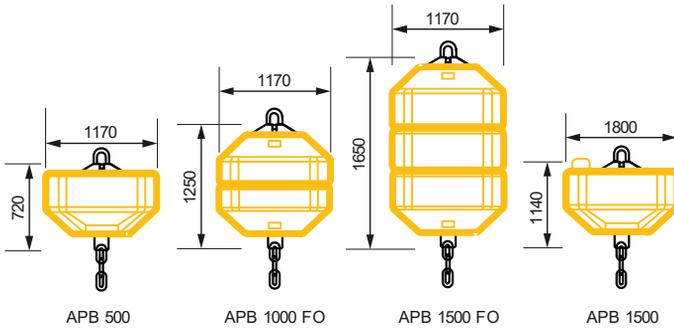
Activa FFB 8200

Activa FFB 11300

	6.300	7.800	8.200	11.300
Net Buoyancy	5500	6010	7200	10410
Buoyancy	6300	7770	8200	11310
Weight	800	760	1000	1090
Volume	6900 liters	8300 liters	8950 liters	12070 liters
MBL	63,2	63,2	63,2	63,2

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Modular Mooring & Spring – **APB Series**

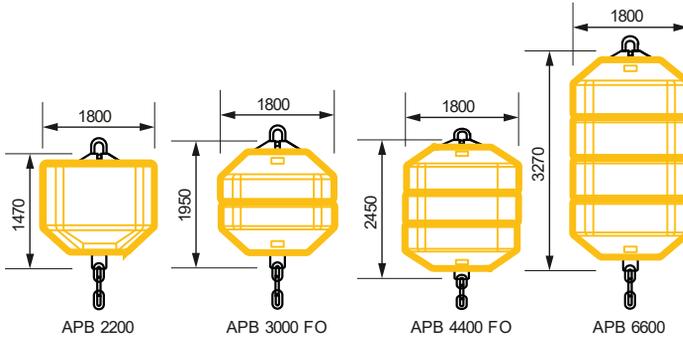


	500	1000 FO	1500 FO	1500
Net Buoyancy	495	1015	1520	1500
Buoyancy	580	1130	1660	1755
Weight	85	115	140	255

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



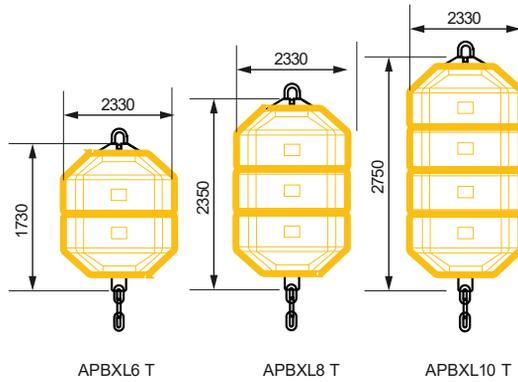
APB Series – Modular Mooring & Spring



	2200	3000 FO	4400 FO	6600
Net Buoyancy	2200	3000	4400	6400
Buoyancy	2480	3400	4990	7290
Weight	280	400	590	890

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Aquaculture Buoys – APB XL Series



	6T	8T	10T
Net Buoyancy	6000	7900	9900
Buoyancy	6650	8950	11230
Weight	650	1050	1330
Volume	6650	8950	11200

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

BUOYS



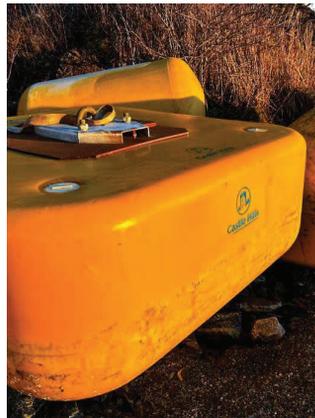
**Surface or
Subsurface**



**Mooring Modular
Used**



**Aquaculture
Modular Buoys**



**Aquaculture
Modular Buoys**

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



**Activa FBB
Unused**



**Activa FBB
Used**

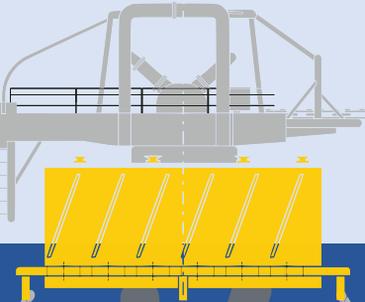


**APB Series
Used**

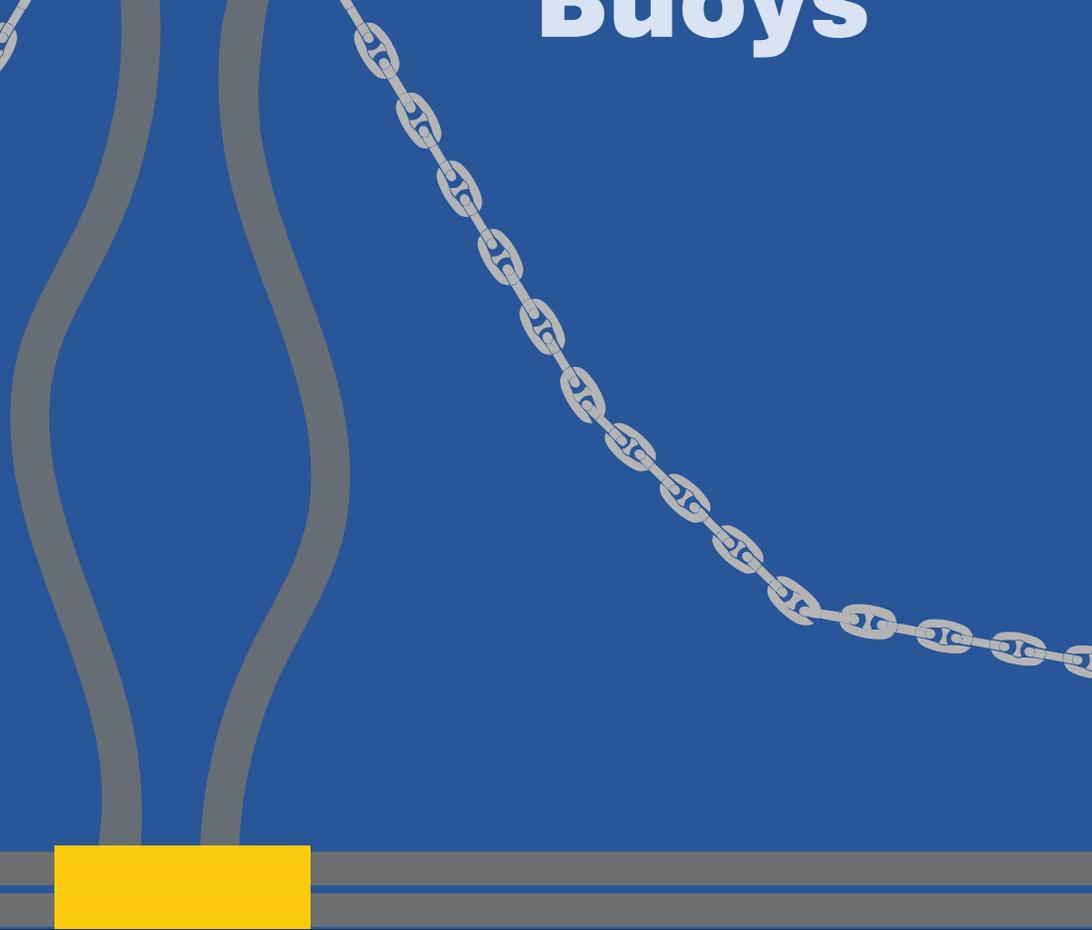


**Activa FBB
New**

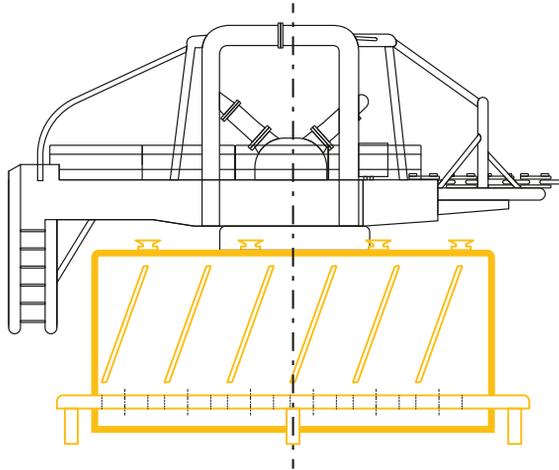
Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



CALM Buoys



Single Point Mooring – CALM Buoys



Second Hand CALM Buoys:

Unused

Some of our deliveries of CALM Buoys for Single Point Mooring SPM projects.

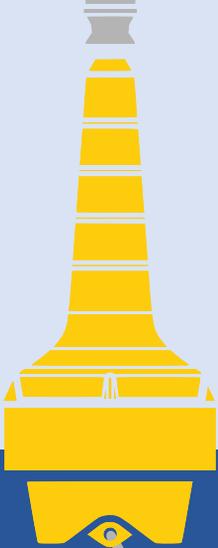


Used

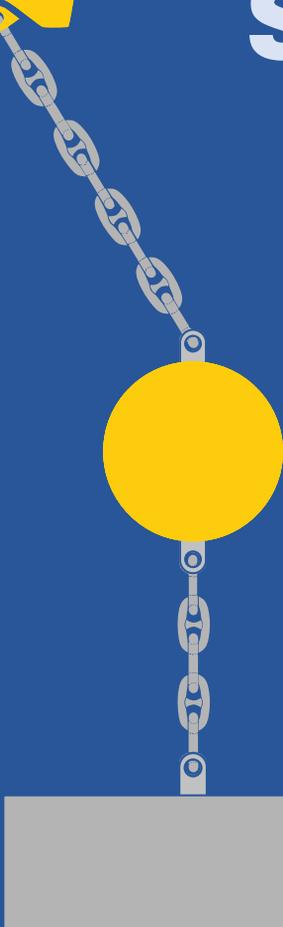
Some of our Second Hand CALM Buoys for Sale worldwide.

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





Regular Subsea Buoys



Regular Subsurface Buoys

Spherical



OFV



CSB



Pendant



These subsurface buoys are referred to as regular since they are not modular. They can be mainly multi-purpose, such as the spherical buoys, or task specific such as anchor pendant buoys. While most commonly used anchor pendant buoys are modular and rotative, there are also regular non-modular types, both of which in stock.

Main Regular Subsurface Buoys:

Spherical

Hundreds of pieces in stock in Norway of used and new spherical buoys, for subsea use at different depths.



Anchor Pendant

Different sizes, mainly second hand anchor pendant buoys, in stock in Norway and Europe.

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



Spherical Buoys – Subsurface Buoys



300-1



340-2



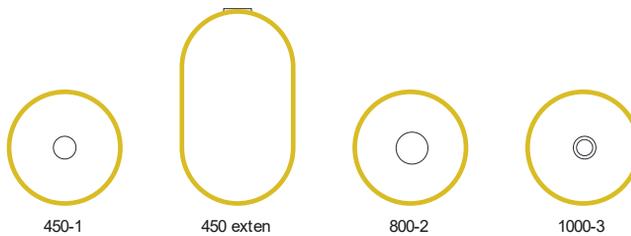
400-3

Depth	Dia 300		Dia 340		Dia 400	
Depth	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	11	2.9	16	4.1	26	6
100 m	9.5	4.1	15	6	23	9
250 m	8	5.5	13	8	20	12
500 m	7.5	6	12	9	19	13
800 m	7.5	6	11	9.5	18	14
1000 m	6	7.5	9.5	11	15	17
1500 m	6	8	8.5	12	14	18
2000 m	5.5	8	8.5	12	13	19
2500 m	4.9	9	8	13	12	20

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



Subsurface Buoys – Spherical Buoys



Depth	Dia 450 1		Dia 450 exten		Dia 800 2		Dia 1000 3	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	38	8	70	16	240	40	455	75
250	34	12	65	23	215	65	405	125
500	30	17	55	34	190	90	360	170
800	28	19	50	38	175	105	335	195
1000	27	20	48	40	165	130	320	210
1500	23	24	43	45	140	135	270	265
2000	21	25	39	49	125	150	250	285
2500	19	27	36	50	120	160	230	305

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



Spherical Floats – Subsurface Buoys



OF1



OF2



OF3

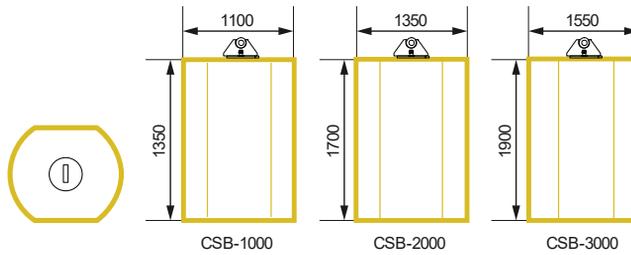


OF4

Depth	OF 1		OF 2		OF 3		OF 4	
Depth	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
1000	8.1	7.5	12	11.5	21	20.8	45.8	47.9
1500	8.8	6.9	13	10.5	22.9	19	50	43.6
2000	8.5	7.1	12.7	10.9	22.1	19.7	48.4	45.3
2500	9.2	6.4	13.7	9.8	24	17.8	52.8	40.9
3000	9.8	5.9	14.5	9	25.5	16.3	56.3	37.4
6000	11.4	4.3	17	6.5	30	11.8	66.5	27.2
Bore ID mm	19.05		38.1		38.1		38.1	

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Cylindrical Support Buoys – **CSB**



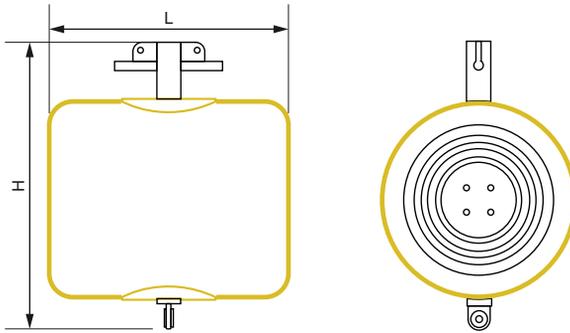
Depth (m)	Dia 300		Dia 340		Dia 400	
	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	980	245	1970	395	2700	510
100	870	355	1750	610	2400	800
250	760	465	1540	820	2100	1090
500	700	520	1430	930	1960	1240
800	670	550	1370	1000	1870	1330
1000	560	670	1340	1030	1830	1360
1500	510	710	1220	1140	1670	1530
2000	470	750	1070	1290	1470	1720
2500	425	800	990	1380	1360	1840

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





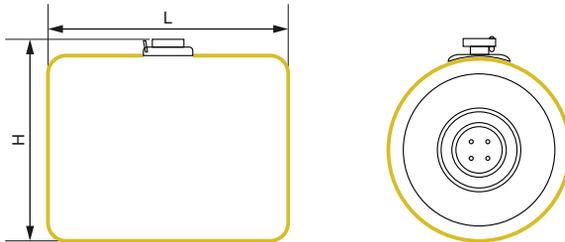
Anchor Pendant – Crucifix



CRUCIFIX	CT3	CT4	CT5	CT6	CT8	CT10	CT12	CT15	CT17
N.B. (Kg)	3000	4000	5000	6000	8000	10000	12000	15000	17000
Weight (Kg)	1300	1400	1550	1700	1900	2150	2400	2900	3200
O.D. (mm)	1650	1850	1950	2100	2200	2300	2350	2500	2650
Length (mm)	2100	2150	2200	2300	2700	3000	3400	3700	3700
H (mm)	2500	2700	2850	3000	3100	3200	3250	3400	3550

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Passing Through – **Anchor Pendant**



PASSING	HT3	HT4	HT5	HT6	HT8	HT10	HT12	HT15	HT17
N.B. (kg)	3000	4000	5000	6000	8000	10000	12000	15000	17000
Weight (kg)	1300	1400	1550	1700	1900	2150	2450	2900	3200
O.D. (mm)	1650	1850	1950	2100	2200	2300	2350	2500	2650
Length (mm)	2100	2150	2200	2300	2700	3000	3400	3700	3700
H (mm)	2000	2200	2250	2450	2550	2650	2700	2850	3000

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



**Spherical Buoys
Used**



**Oceanus Floats
Used**



**Spherical Buoys
with Pad Eye**

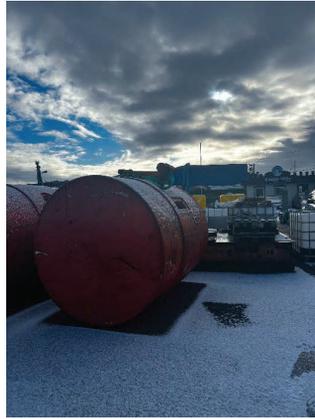


**Hard Ball Buoys
Used**

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



**Anchor Pendant
Unused**



**Anchor Pendant
Used**



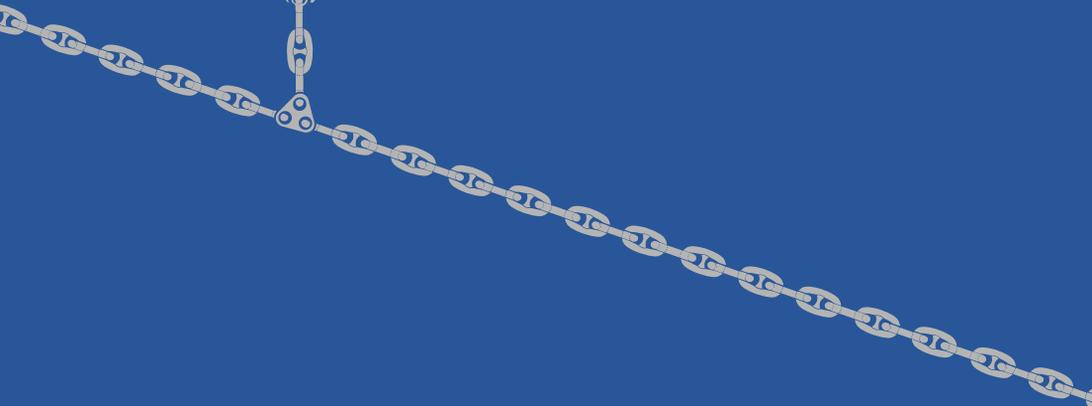
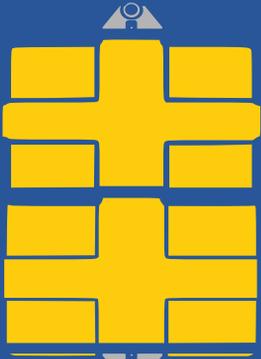
**Anchor Pendant
Unused**



**We also have
Donut Buoys**

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Modular Subsea Buoys



Modular Subsurface Buoys

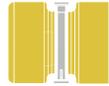
MCMB



CMB



Anchor



MB



MSB



SMB



SSB



Main Modular Subsurface Buoys:

Second Hand

We have hundreds of pieces of used modular subsurface buoys, including donut modular buoys.



First Hand

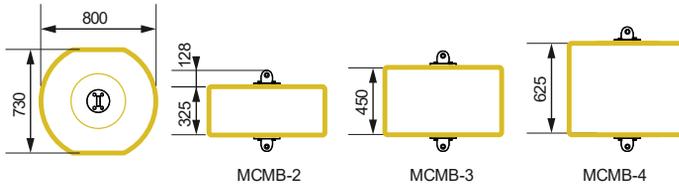
We also have in stock new or unused subsea modular buoys in Norway, different types, sizes and depth applications.

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





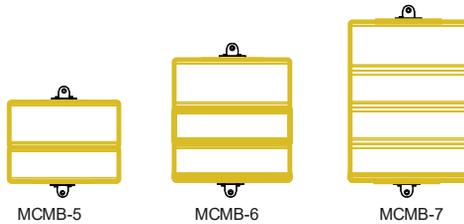
MCMB – Mini Cylindrical Modular Buoys



Depth (m)	MCMB 2		MCMB 3		MCMB 4	
	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	59	99	71	148	86	210
250	90	68	115	105	147	149
500	100	58	129	90	167	129
1000	109	45	141	72	184	111
1500	116	38	151	63	198	98
2000	113	41	147	67	192	104

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Mini Cylindrical Modular Buoys – **MCMB**

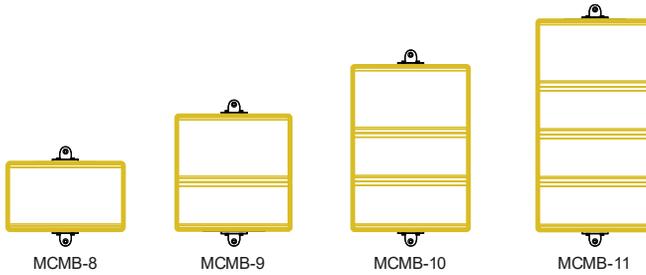


Depth (m)	MCMB 5		MCMB 6		MCMB 7	
	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	87	191	113	284	139	377
250	141	137	190	207	240	276
500	159	119	216	181	273	243
1000	174	96	238	149	302	201
1500	186	85	255	132	324	179
2000	181	89	248	139	315	188

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



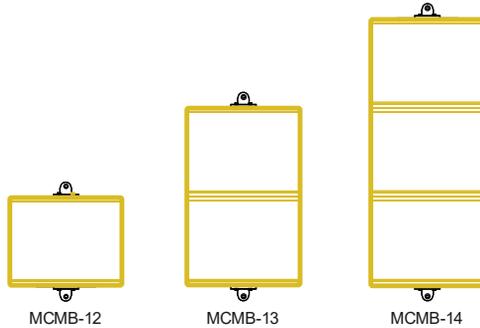
MCMB – Mini Cylindrical Modular Buoy



Depth (m)	MCMB 8		MCMB 9		MCMB 10		MCMB 11	
	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	71	148	101	273	135	394	168	519
250	115	105	175	199	241	288	304	383
500	129	90	200	175	275	254	349	338
1000	141	72	221	143	306	210	388	279
1500	151	63	237	127	328	187	417	250
2000	147	67	230	134	319	196	405	261

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Mini Cylindrical Modular Buoys – **MCMB**

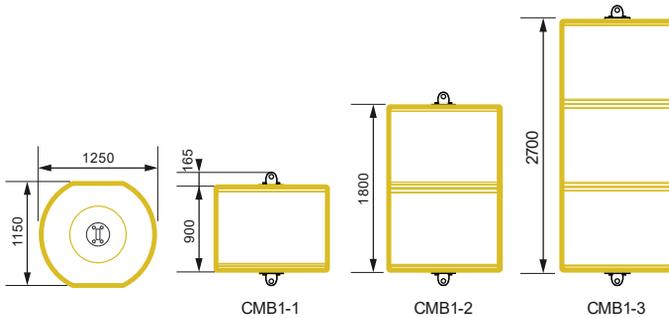


Depth (m)	MCMB 12		MCMB 13		MCMB 14	
	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	86	210	143	460	201	703
250	147	149	265	338	384	520
500	167	129	305	298	444	459
1000	184	111	341	247	497	383
1500	198	98	367	221	536	344
2000	192	104	356	232	520	360

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



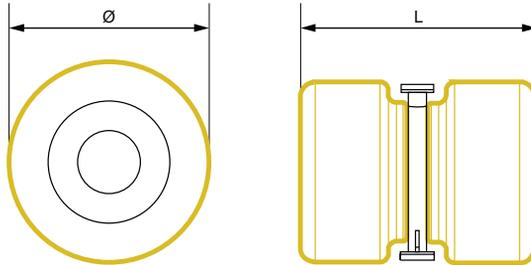
CMB – Cylindrical Modular Buoys



Depth (m)	CMB 1		CMB 2		CMB 3	
	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	746	1674	1051	3226	1356	4779
250	1205	1215	1881	2396	2558	3577
500	1356	1064	2154	2123	2953	3182
1000	1501	919	2416	1861	3332	2802
1500	1490	848	2398	1763	3306	2679
2000	1539	799	2487	1675	3434	2550

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Modular Anchor Pendant – Donut Buoy

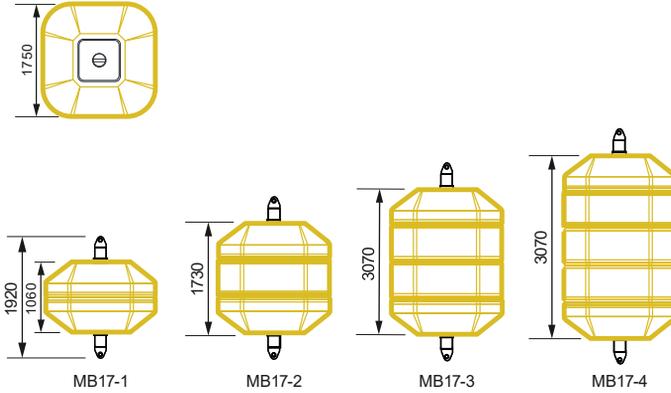


Ø - Dia.	L - Length	Net Buoyancy	Weight
2000	2440	4000	1980
2150	2840	6500	2700
2300	3040	8500	2870
2600	3095	9500	3900
2800	3600	15000	5040

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



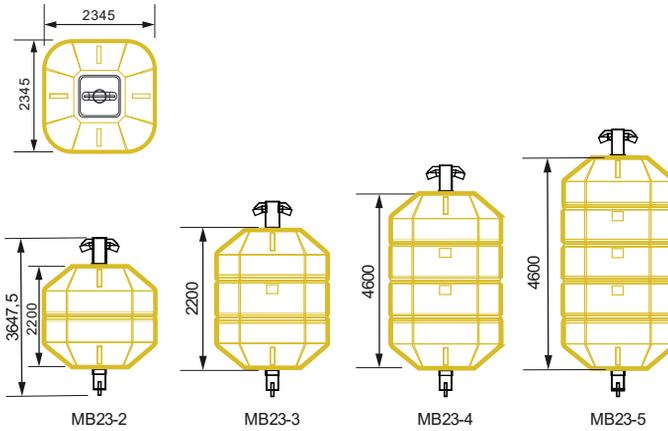
MB 17 – Modular Buoys



Depth	MB17 1		MB17 2		MB17 3		MB17 4	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	746	1674	1051	3226	1356	4779	1661	6331
250	1205	1215	1881	2396	2558	3577	3234	4758
500	1356	1064	2154	2123	2953	3182	3752	4241
1000	1501	919	2416	1861	3332	2802	4248	3744
1500	1490	848	2398	1763	3306	2679	4213	3594
2000	1539	799	2487	1675	3434	2550	4318	3426

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Modular Buoys – MB 23

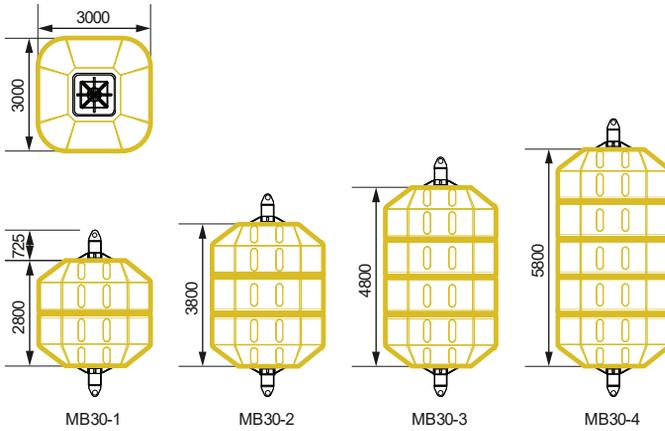


Depth	MB23	2	MB23	3	MB23	4	MB23	5
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	1773	6968	2396	10421	3020	13874	3644	17326
250	3526	5215	4977	7841	6427	10467	7877	13093
500	4103	4638	5825	6992	7547	9347	9270	11701
1000	4656	4084	6639	6178	8622	8272	10605	10365
1500	4617	3949	6582	6020	8547	8091	10511	10162
2000	4804	3762	6857	5745	8910	7728	10963	9710

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



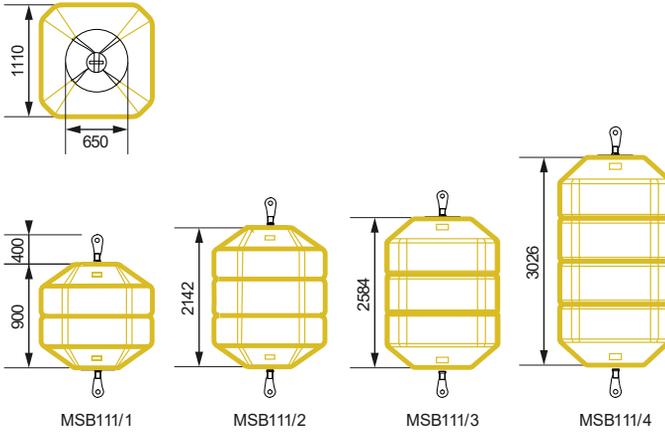
MB 30 – Modular Buoys



Depth	MB30 1		MB30 2		MB30 3		MB30 4	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	3688	15458	4902	22553	5839	29239	7191	36098
250	7575	11571	10489	16966	13126	21951	16179	27110
500	8854	10293	12327	15128	15223	19554	19134	24154
1000	10800	9066	14090	13365	17823	17255	21971	21318
1500	9994	8733	13966	12955	17937	17176	21909	21398
2000	10409	8319	14562	12359	18715	16399	22868	20439

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Modular Support Buoys – **MSB 111**



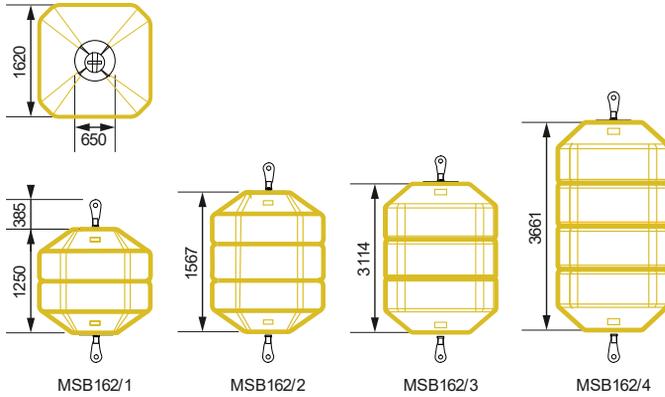
Depth	MSB111 1		MSB111 2		MSB111 3		MSB111 4	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	580 (710)	280 (130)	1000	385	1430	490	1850	590
100 m	500 (630)	355 (205)	880	510	1260	660	1640	810
250 m	435 (570)	420 (270)	770	610	1110	950	1440	1000
500 m	395 (530)	460 (310)	710	680	1020	890	1340	1110
800 m	375 (500)	485 (335)	670	710	970	940	1270	1170
1000 m	285 (415)	570 (425)	530	350	780	1130	1030	1420
1500 m	255 (385)	600 (455)	485	900	710	1200	940	1500
2000 m	225 (355)	630 (485)	435	950	640	1270	850	1590
2500 m	195 (325)	660 (510)	385	1000	570	1340	760	1680

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





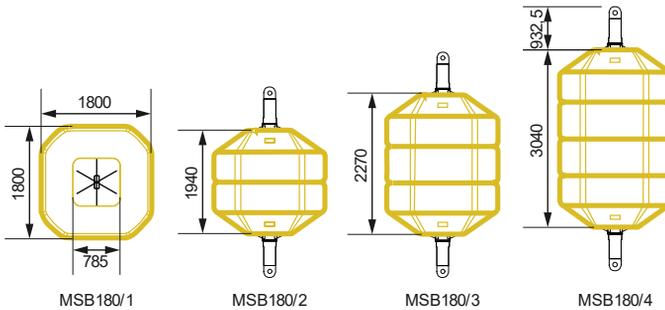
MSB 162 – Modular Support Buoys



Depth	MSB162 1		MSB162 2		MSB111 3		MSB162 4	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	1630(1770)	445(290)	2800	670	3900	900	5100	1120
100 m	1440(1580)	630(480)	2500	980	3500	1340	4500	1680
250 m	1250(1390)	830(670)	2200	1300	3100	1780	4000	2300
500 m	1160(1290)	920(770)	2000	1460	2800	2000	3700	2500
800 m	1100(1240)	980(820)	1900	1550	2700	2100	3500	2700
1000 m	1080(1210)	1000(840)	1870	1590	2700	2200	3400	2800
1500 m	980(1110)	1100(950)	1700	1760	2400	2400	3100	3100
2000 m	850(980)	1230(1080)	1480	1970	2100	2700	2800	3400
2500 m	770(910)	1310(1150)	1360	2100	1940	2900	2500	3700

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Modular Support Buoys – **MSB 180**

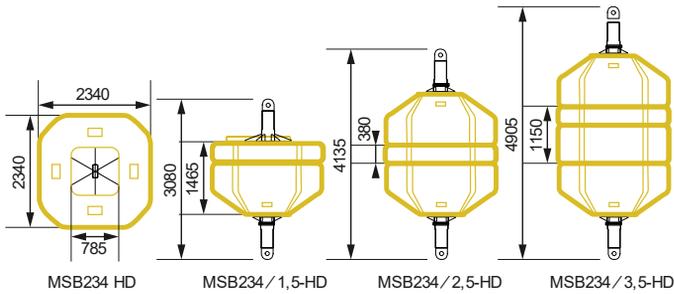


Depth	MSB180 2		MSB180 3		MSB180 4	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	3500(1950)	1190(345)	5200(1760)	1550(320)	6900	1920
100 m	3100(1740)	1550(550)	4600(1570)	2100(510)	6200	2700
250 m	2700(1530)	1970(760)	4000(1380)	2700(700)	5400	3500
500 m	2500(1420)	2200(870)	3700(1290)	3000(790)	5000	3900
800 m	2300(1360)	2300(930)	3500(1230)	3200(850)	4700	4100
1000 m	2300(1340)	2300(950)	3500(1210)	3300(870)	4600	4200
1500 m	2100(1220)	2600(1070)	3100(1110)	3600(970)	4200	4600
2000 m	1780(1080)	2900(1210)	2700(980)	4000(1100)	3700	5200
2500 m	1610(1000)	3000(1290)	2500(900)	4200(1180)	3300	5500

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



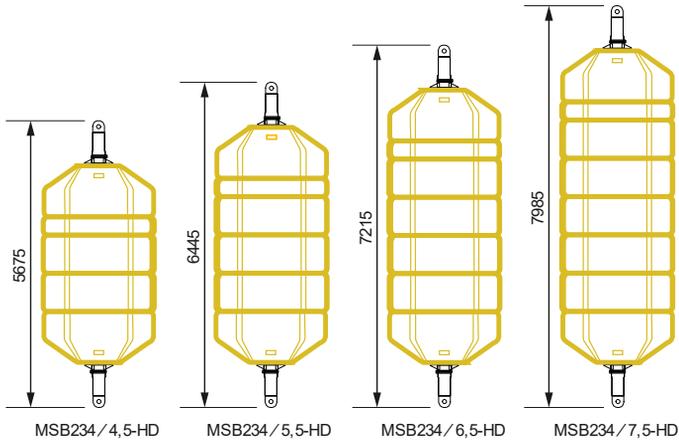
MSB 234 – Heavy Duty Half Elements



Depth	1,5		2,5		3,5	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	4800	1490	8400	2200	11600	2800
100	4200	2100	7400	3200	10200	4200
250	3600	2700	6400	4200	8900	5500
500	3300	3000	5900	4600	8200	6100
800	3200	3100	5700	4900	7900	6500

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Heavy Duty Half Elements – **MSB 234**



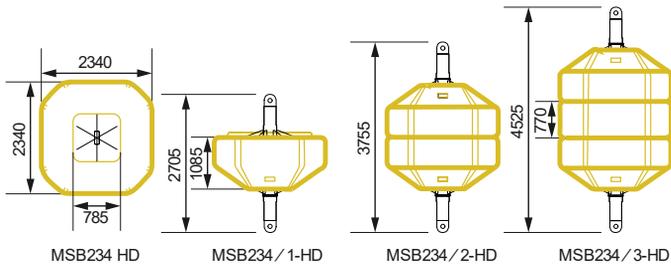
Depth	4,5		5,5		6,5		7,5	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	18000	4000	21200	4700	24200	5500	23000	5400
100	15900	6100	18800	7000	21500	8100	20400	8000
250	13900	8200	16300	9500	18700	10900	17700	10600
500	12900	9100	15200	10700	17400	12300	16400	11900
800	12300	9700	14500	11300	16600	13100	15700	12700

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





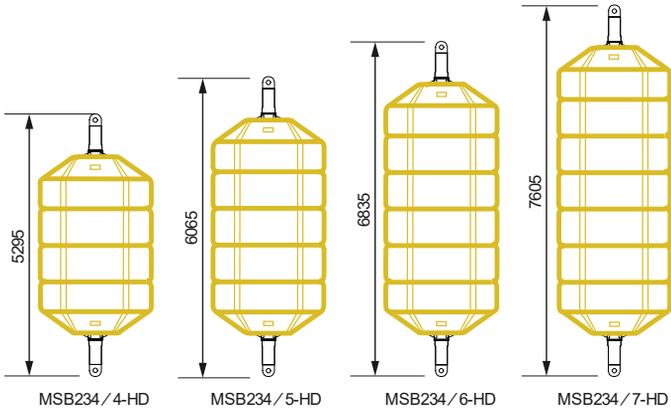
MSB 234 – Heavy Duty



Depth	1		2		3	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	3200	1150	6900	1770	10000	2500
100	2800	1590	6000	2700	8800	3600
250	2400	1970	5200	3500	7700	4800
500	2200	2200	4800	3800	7100	5400
800	2100	2300	4600	4100	6800	5700

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Heavy Duty – **MSB 234**



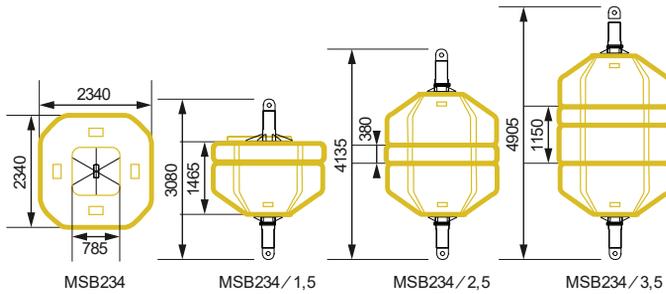
Depth	4		5		6		7	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	13200	3100	16400	3700	19600	4300	22700	5000
100	11700	4600	14500	5600	17400	5600	20200	7500
250	10200	6100	12600	7500	15100	8800	17600	10100
500	9400	6900	11700	8400	14000	9900	16400	11400
800	9000	7300	11200	8900	13400	10500	15600	12100

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





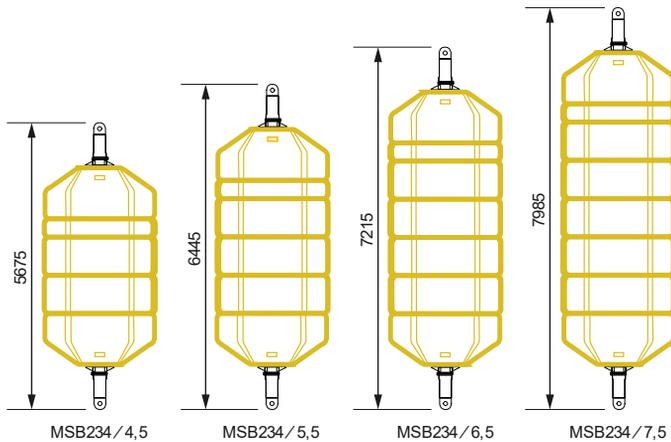
MSB 234 – Half Elements



Depth	1,5		2,5		3,5	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	4600	1460	7900	2100	10900	2700
100	4000	2000	6900	3100	9700	4000
250	3400	2600	6000	4000	8400	5300
500	3200	2900	5600	4500	7800	5900
800	3000	3000	5300	4700	7400	6300
1000	3000	3100	5200	4800	7300	6400
1500	2700	3400	4700	5300	6600	7100
2000	2300	3700	4100	5900	5800	7900
2500	2100	4000	3700	6300	3500	8400

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Half Elements – MSB 234

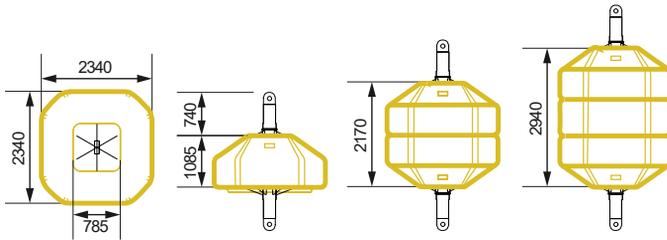


Depth	4,5		5,5		6,5		7,5	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	14000	3300	17000	4000	20100	4600	23000	5400
100	12400	5000	15100	5900	17800	6800	20400	8000
250	10700	6600	13100	7900	15500	9200	17700	10600
500	10000	7400	12200	8800	14400	10300	16400	11900
800	9500	7800	11600	9400	13700	10900	15700	12700
1000	9400	8000	11500	9500	13500	11100	15500	12900
1500	8500	8800	10400	10600	12300	12300	14100	14300
2000	7500	9900	9100	11900	10800	13800	12300	16000
2500	6800	10500	8400	12600	9900	14700	11300	17000

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



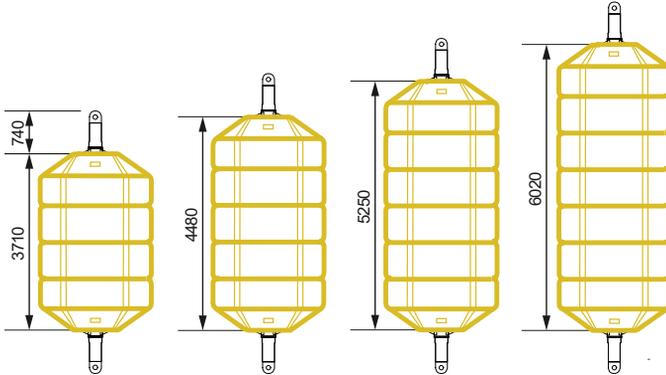
MSB 234 – Modular Support Buoys



Depth (m)	MSB234 1		MSB234 2		MSB234 3		
	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	
Surface	2900	1170	6300	1770	9300	2500	
250	2100	1940	4800	3300	7200	4600	
500	1960	2100	4400	3700	6600	5100	
800	1850	2200	4200	3900	6300	5400	
1000	1830	2200	4100	3900	6300	5500	
1500	1610	2500	3700	4400	5600	6200	
2000	1430	2700	3300	4700	5100	6900	

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Modular Support Buoys – **MSB 234**



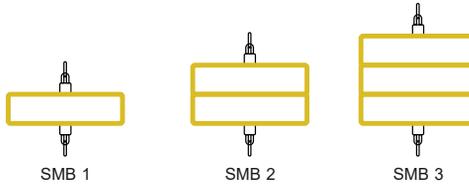
Depth	MSB234 4		MSB234 5		MSB234 6		MSB234 7	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	12400	3100	15400	3700	18500	4300	21500	5000
250	9600	5900	12000	7200	14400	8500	16800	9700
500	8900	6600	11100	8000	13300	9500	15600	10900
800	8500	7000	10600	8500	12700	10100	14900	11600
1000	8400	7100	10500	8600	12600	10200	14700	11800
1500	7500	7900	9400	9700	11300	11500	13200	13300
2000	6800	8600	8600	10600	10300	12500	12100	14400

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





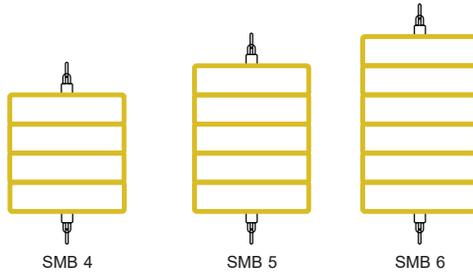
SMB Series – Sub Modular Buoyancy



	1	2	3
Net buoyancy (-10m)	84	175	265
Net buoyancy (-100m)	71	150	228
Net buoyancy (-250m)	61	129	197
Net buoyancy (-500m)	46	104	160
Length	77	77	77
Width	77	77	77
Height	24	44	64

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Sub Modular Buoyancy – **SMB Series**

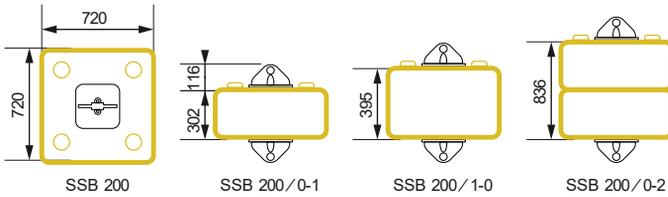


	4	5	6
Net buoyancy (-10m)	357	447	537
Net buoyancy (-100m)	306	385	462
Net buoyancy (-250m)	265	333	400
Net buoyancy (-500m)	215	270	324
Length	77	77	77
Width	77	77	77
Height	84	104	124

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



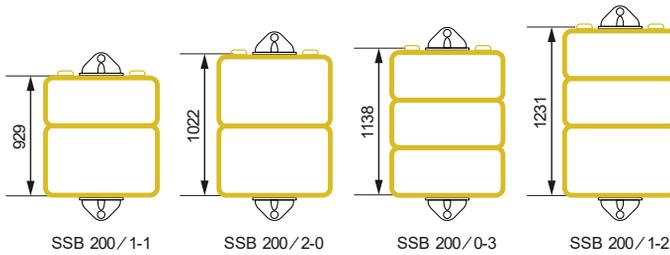
SSB 200 – Subsea Support Buoy



Depth	0-1		1-0		0-2		
	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	
Surface	90 (120)	60 (30)	135 (165)	70 (38)	205	95	
100 m	80 (105)	75 (45)	120 (145)	85 (55)	180	120	
250 m	65 (95)	90 (55)	95 (125)	110 (80)	155	145	
500 m	60 (85)	95 (60)	90 (115)	115 (85)	145	160	
800 m	55 (85)	100 (65)	85 (110)	120 (90)	135	165	
1000 m	42 (70)	110 (80)	70 (95)	135 (105)	110	190	
1500 m	37 (65)	115 (85)	60 (90)	145 (110)	100	200	
2000 m	32 (60)	120 (90)	55 (80)	150 (120)	90	210	
2500 m	27 (55)	125 (95)	48 (75)	155 (125)	80	220	

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Subsea Support Buoy – **SSB 200**



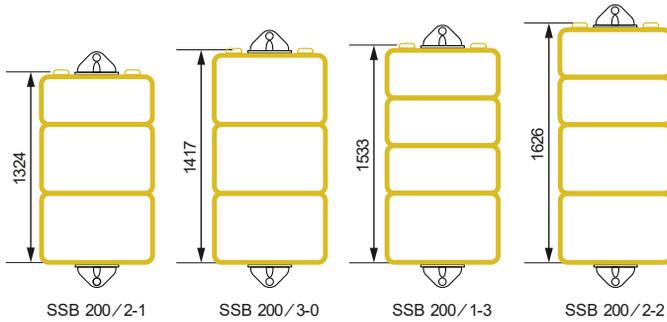
	1-1		2-0		0-3		1-2	
Depth	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	250	100	295	110	325	125	370	135
100 m	220	130	260	145	285	165	325	175
250 m	185	165	215	190	250	220	280	225
500 m	170	180	200	205	230	220	255	245
800 m	165	190	190	215	220	235	245	260
1000 m	135	215	160	245	180	270	300	300
1500 m	125	230	145	260	165	285	185	315
2000 m	110	240	135	275	150	300	170	330
2500 m	100	255	120	285	135	315	150	350

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





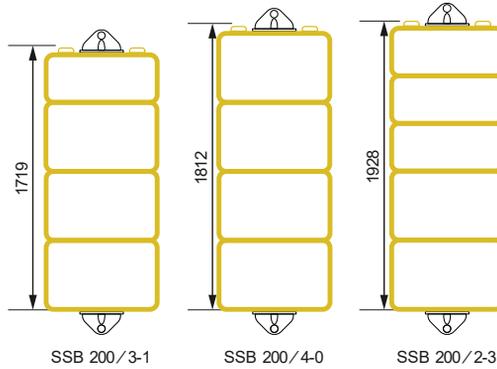
SSB 200 – Subsea Support Buoy



	2-1		3-0		1-3		2-2	
Depth	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	410	145	455	150	485	165	530	175
100 m	365	190	405	205	430	220	470	235
250 m	305	245	335	270	370	285	400	305
500 m	285	270	310	295	340	310	370	335
800 m	270	285	300	310	325	325	355	350
1000 m	230	325	255	350	275	380	300	405
1500 m	210	345	235	375	250	400	275	430
2000 m	190	365	215	395	230	425	250	455
2500 m	175	380	190	415	205	445	225	480

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Subsea Support Buoy – **SSB 200**

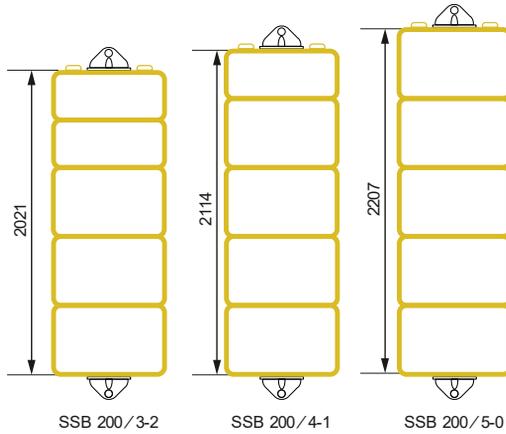


Depth	3-1		4-0		2-3	
	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	570	185	620	190	650	205
100 m	510	250	550	260	570	280
250 m	430	325	460	350	490	360
500 m	395	360	425	385	455	400
800 m	380	375	405	400	435	420
1000 m	325	430	350	460	365	485
1500 m	295	460	320	485	340	510
2000 m	270	485	295	520	310	540
2500 m	245	510	265	540	280	570

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



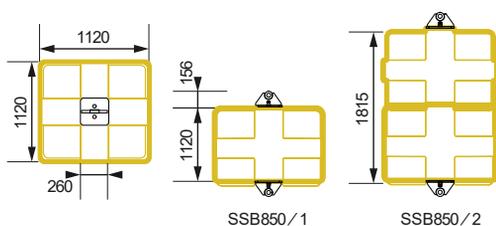
SSB 200 – Subsea Support Buoy



	3-2		4-1		5-0		
Depth	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight	
Surface	690	215	730	225	780	230	
100 m	610	290	650	305	690	320	
250 m	520	385	550	405	580	430	
500 m	480	425	510	445	540	470	
800 m	460	445	490	470	510	495	
1000 m	390	510	415	540	440	570	
1500 m	360	540	385	570	405	600	
2000 m	330	580	350	610	375	640	
2500 m	300	610	320	640	340	670	

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Subsea Support Buoy – **SSB 850**

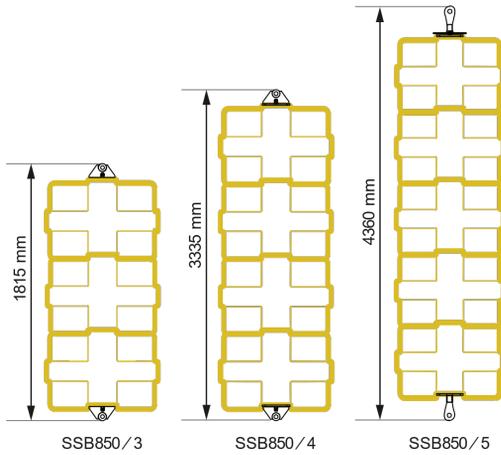


Depth	SSB850 1		SSB850 2	
(m)	Buoyancy	Weight	Buoyancy	Weight
Surface	680 (710)	180 (145)	1390	330
100 m	600 (630)	255 (220)	1230	480
250 m	530 (560)	330 (295)	1080	640
500 m	490 (520)	370 (335)	1000	710
800 m	470 (500)	395 (360)	960	760
1000 m	400 (420)	470 (430)	810	910
1500 m	360 (390)	500 (470)	750	970
2000 m	330 (360)	530 (500)	680	1030
2500 m	300 (325)	560 (530)	620	1100

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



SSB 850 – Subsea Support Buoy



Depth	SSB850 3		SSB850 4		SSB850 5	
(m)	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	2100	480	2800	630	3400	870
100	1860	710	2500	940	3000	1250
250	1630	940	2200	1240	2700	1640
500	1520	1050	2000	1400	2500	1830
800	1450	1120	1950	1480	2400	1940
1000	1230	1350	1640	1790	1980	2300
1500	1130	1400	1520	1910	1820	2500
2000	1020	1540	1390	2000	1670	2600
2500	940	1630	1260	2200	1510	2800

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



**Subsea Support
Buoys - Unused**



**Large Subsea
Buoys - Unused**



**Donut Buoys
Used**

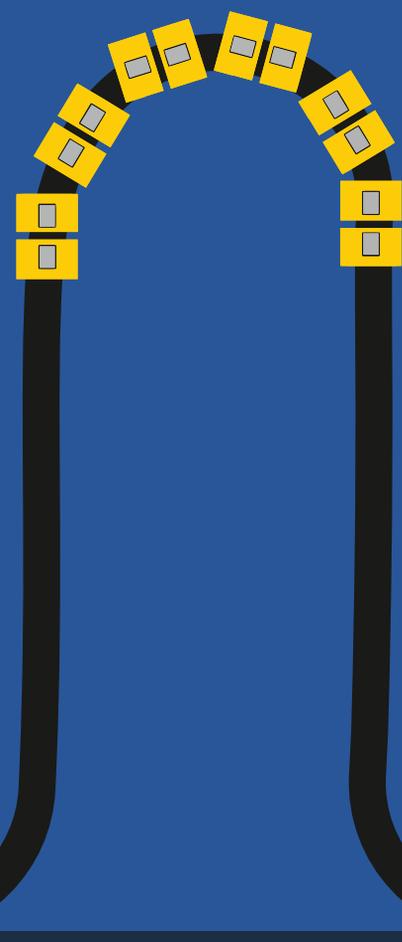


**Modular Support
Buoys - Used**

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Distribution

Subsea Buoys



Distribution Buoys

**Cable
Floats**



**Riser
Floats**



**Tie In
Modular**



**Tie In
Regular**



Distribution buoys are often used in offshore installation of subsea hoses, cables and pipelines. The most commonly used ones are the tie in buoys for pipeline deployment, and the riser floats for subsea hoses and catenary installations.

Main Distribution Buoys in Stock:

First Hand

Hundreds of pieces, new or unused Tie In buoys for pipe deployment, in stock in Norway.



Second Hand

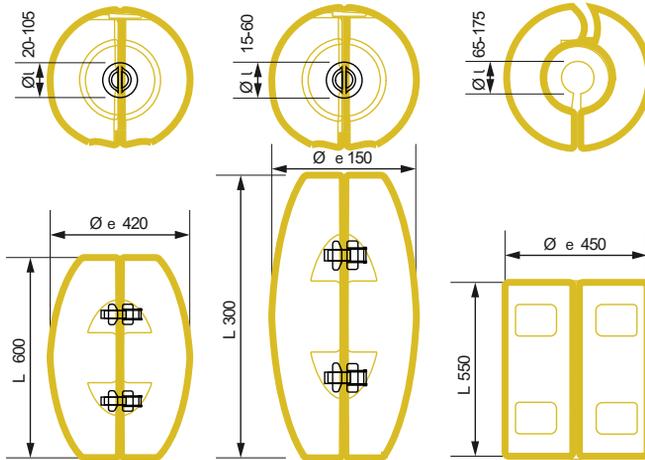
Both Tie In and Raiser Floats, used, in stock in Norway. Dozens of different sizes and models for different depths.

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





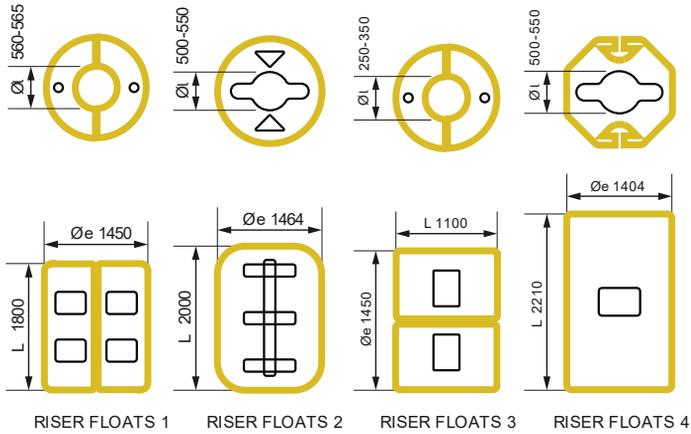
Cable Floats – Offshore Buoys



Depth	Net Buoyancy 1	Net Buoyancy 2	Net Buoyancy 3
0-50	50	45	2.1
50-100	38	35	1.7
Øe (mm)	450	420	150
Øl (mm)	65-175	20-105	15-60
L (mm)	550	600	300

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Offshore Buoys – Riser Floats



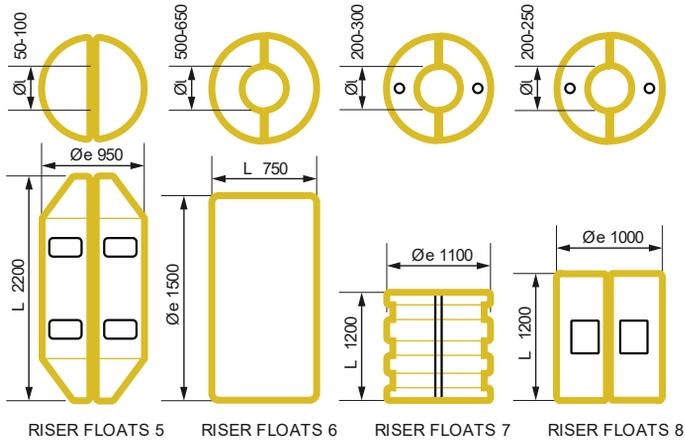
	5	6	7	8
Ø e	1450	1464	1450	1404
Ø l	560-565	500-550	250-350	500-550
L	1800	2000	1100	2210
Volume (liters)	2370	2130	1630	1290

Typically installed between 1000 and 4000 m of depth.

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



Riser Floats – Offshore Buoys

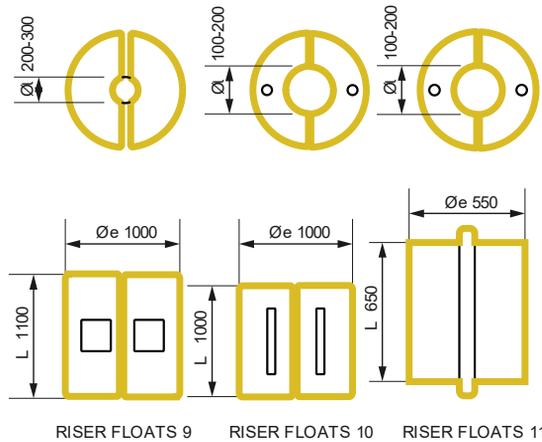


	5	6	7	8
Ø e	950	1500	1100	1000
Ø l	50-100	500-650	200-300	200-250
L	2200	750	1200	1200
Volume (liters)	1230	1090	1020	830

Typically installed between 1000 and 4000 m of depth.

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Offshore Buoys – Riser Floats



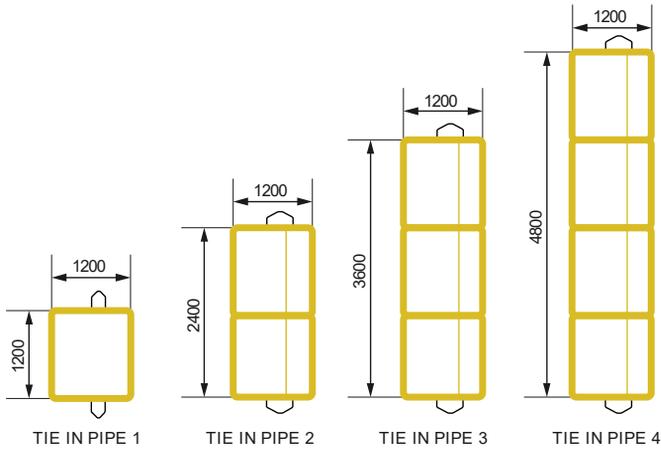
	9	10	11
Ø e	1000	1000	550
Ø l	200-300	100-200	100-200
L	1100	1000	650
Volume (liters)	700	700	730

Typically installed between 1000 and 4000 m of depth.

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



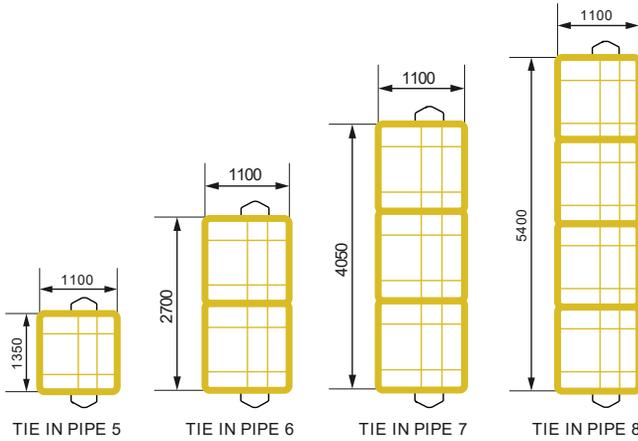
Modular Tie In – Installation Buoys



Depth	Net Buoyancy 1	Net Buoyancy 2	Net Buoyancy 3	Net Buoyancy 4
0-50	905	1935	2965	4000
50-100	865	1855	2845	3840
100-200	775	1675	2575	3480

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Installation Buoys – **Modular Tie In**

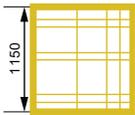
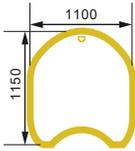


Depth	Net Buoyancy	5	Net Buoyancy	6	Net Buoyancy	7	Net Buoyancy	8
0-50	1060		2220		3320		4520	
50-100	940		2100		3190		4360	
100-200	880		2040		3120		4260	

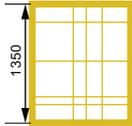
Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



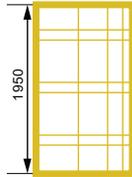
Regular Tie In – Installation Buoys



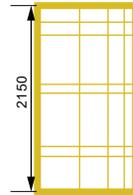
SINGLE MODULE PIPE 1



SINGLE MODULE PIPE 2



SINGLE MODULE PIPE 3

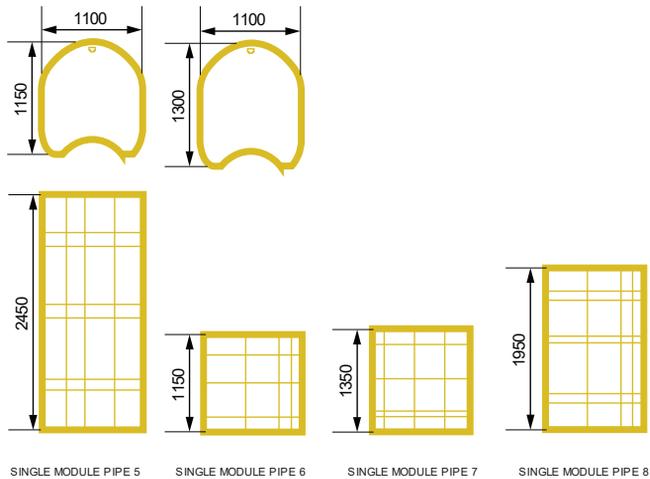


SINGLE MODULE PIPE 4

Depth	Net Buoyancy 1	Net Buoyancy 2	Net Buoyancy 3	Net Buoyancy 4
0-50	1075	1325	1875	2000
50-100	1025	1250	1775	1900
100-200	950	1150	1625	1750

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.

Installation Buoys – Regular Tie In

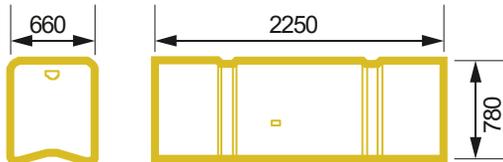
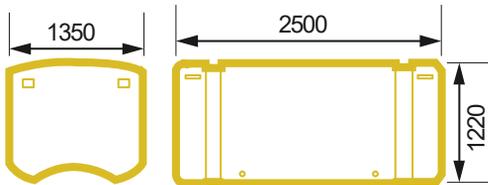
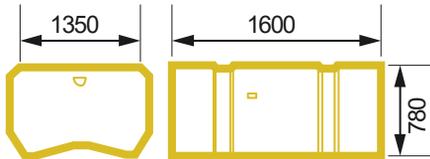


Depth	Net Buoyancy 5	Net Buoyancy 6	Net Buoyancy 7	Net Buoyancy 8
0-50	2300	1250	1475	2125
50-100	2175	1175	1400	2000
100-200	200	1100	1275	1850

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



Regular Tie In – Other Models



Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



**Riser Floats
Used**



**Tie In Buoys
Used**



**Tie In Pipeline
Deployment**



**Tie In Buoys
New**

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





Yokohama



Sling



D Fenders



Foam



Submarine



Roller



Cylinder



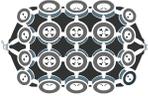
Arch



PVC



Maritime Fenders

Yokohama**Sling****D****Foam****U-Boat****Roller****Cylinder****Arch****Buy or Rent**

Buy or rent maritime fenders from us.

**In Stock**Maritime Fenders in Stock in Norway,
Europe, and Asia Pacific locations.



D Fender – World Record

April 2024, we had a challenge: Our customer wasn't satisfied with any sizes of D Fenders, they needed something greater. As one would do in this scenario, we decided to build the biggest D Fender in the World.

Designing a World Record Fender

Nobody else in the World had ever built such a large D Fender, we had to design our own based on experience and trust on engineering.

Record Speed Delivery

Not only we were beating records of size, but also delivery speed: We completed the project in merely months, and delivered right on time.

The Final Result

Our own World Record Fender lays today in a Norwegian harbor, serving large vessels coming from the North Sea.







Chocks



Bollards



Rollers



Stoppers



Chafe



Triplates



Brackets



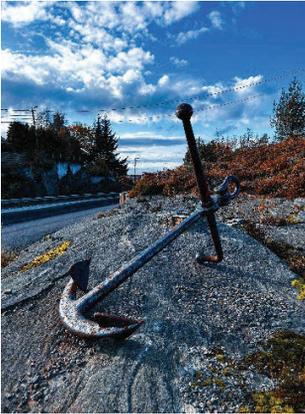
Chasers



Hooks

Castle Hills
BY JAN VINDENES





**Admiralty
Anchors**



**Catapults
Trebuchets**



**M - Light
Houses**



**XL - Light
Houses**





Grade 2



Grade 3



Studless



Pear S.



Kenter S.



D Shackles



SW Shack.



Forerunner



Shrt. Forer.

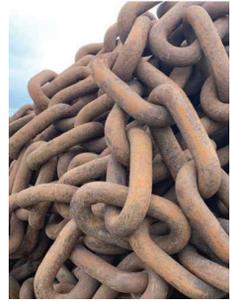




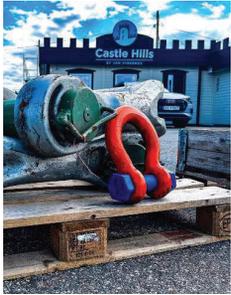
R4 Chain



R3 Chain



Studless



Saf. Bow



Kenter



Mooring



Wide Body



Swivels



H Link



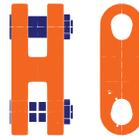
Ship Chain: 12.5 – 172 mm

Chain Adaptor Shackles Swivels



Offshore Chain: 76 – 162 mm

Chain Adaptor Shackles Swivels

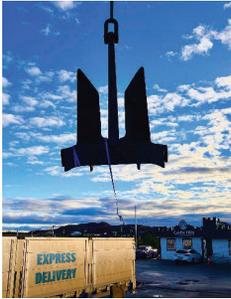


Other Chain in Stock

Mooring Aqua. Chasing Chafe







AC-14



TW



D Hone



Mk5



Mk6



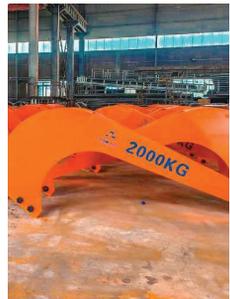
Delta



Spek



Bruce



Stingray

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.



Castle Hills

BY JAN VINDENES



Anchors in Stock

Stevpris



HHP



Bruce



Stockless



Plough



SHHP



Offshore



Other



Buy or Rent

Anchors for sale or rental.



In Stock

Anchors in Stock in Norway, Europe, and Asia Pacific locations.

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. Deviation margins need to be taken in mind, this is your own responsibility and not from Castle Hills AS.





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