



Part of BOS Power

# SELECTED REFERENCES



PASSENGER VESSELS



SPECIAL VESSELS



WORKBOATS



YACHTS

# PROPULSION BEYOND BELIEF

Servogear are a leading manufacturer of Controllable Pitch Propeller (CPP) Systems for high-speed workboats, fast ferries, offshore vessels and yachts.

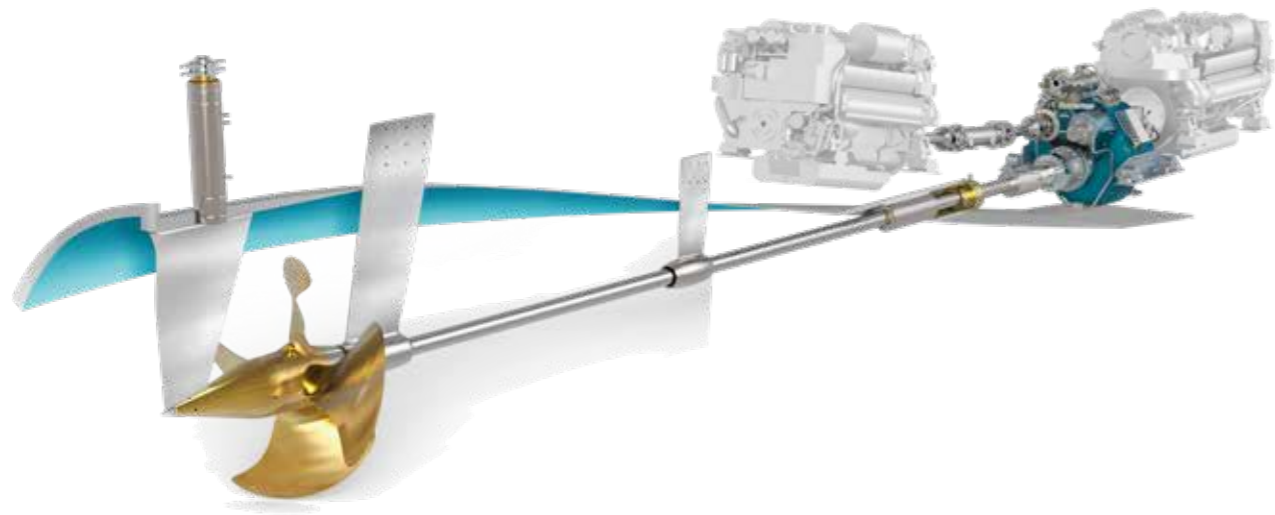
CPP allows pitch adjustment at any engine RPM, making it ideal for hybrid systems where engines and electric motors operate at different power levels. It optimizes propulsion efficiency under varying load and speed conditions by matching propeller load to engine or motor performance, reducing fuel consumption.

Our design philosophy is to work closely together with the ship designers during development of hull lines to obtain an optimum interaction between hull and propulsion system, resulting in the best possible performance. This unique combination of speed and thrust has resulted in the delivery of more than 1900 installations worldwide.

## **SERVOGEAR – PART OF THE BOS POWER GROUP**

Bertel O. Steen Power Solutions' long commitment to the development of hybrid and electric propulsion solutions, combined with Servogear's unique and energy-efficient propulsion system, gives a strong industrial player in the maritime green shift.





**SERVOGEAR ECOFLOW PROPULSOR™**

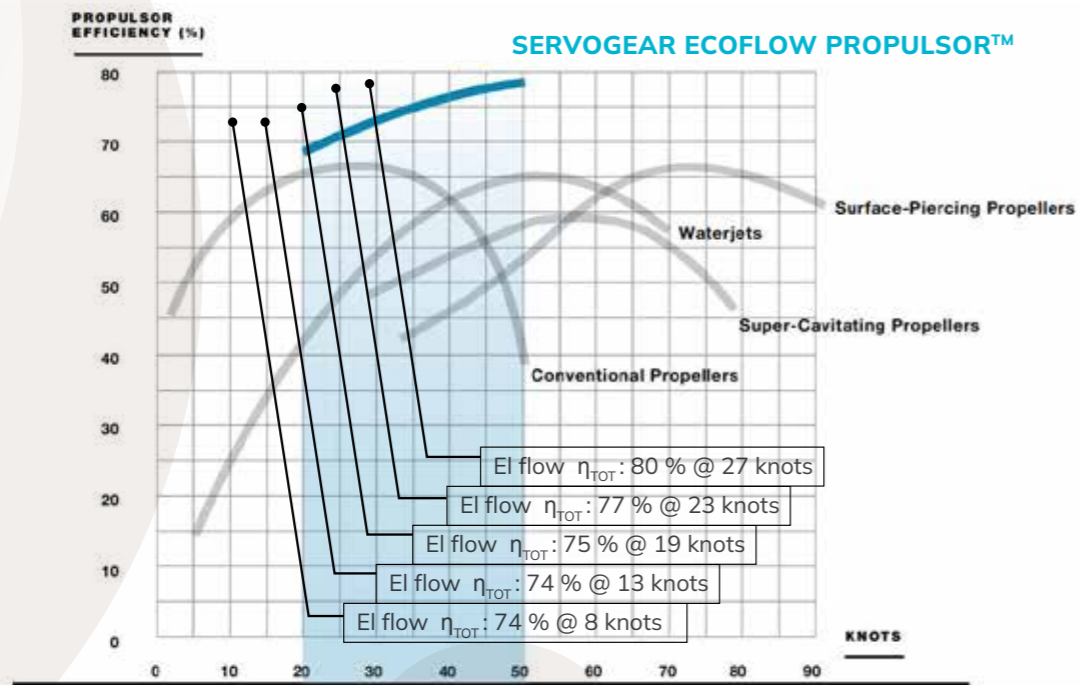
# IMPROVED FUEL ECONOMY

Servogear Ecoflow Propulsor™ offers a number of advantages. A more even loaded propeller in tunnel gives a slimmer and lighter design, which means less weight and drag as well as a higher efficiency.

We calculate and design our propeller tunnels based on a full utilisation of the flow below the hull, ensuring optimum interaction between hull and propulsor. Efficient propulsion means lower fuel consumption, more economic operation and less emission.

Servogear Ecoflow Propulsor™ combines efficient propulsion with a high level of comfort. It is most reliable in operation and not sensitive to load changes, which is very important in regular scheduled services.

Tank and full-scale verification tests have proven that the Servogear Ecoflow Propulsor™ is more efficient than any other known propulsor concept available for high speed vessels operating in the range 20–50 knots.



**OVERVIEW**

# REDUCTION GEARBOXES

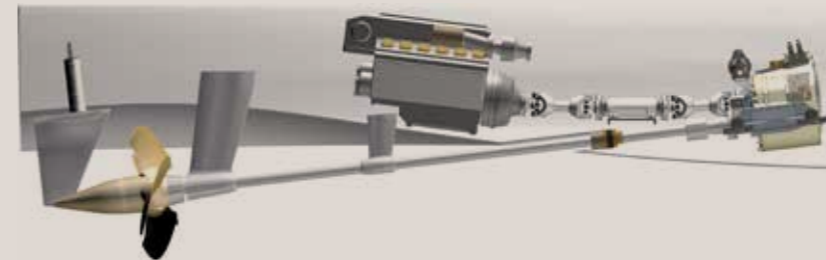
We offer full customization of shaft arrangements. The following illustrations show some of the most usual gear configurations. All arrangements are compatible as a hybrid with a combination of combustion and electro engines.

**AVAILABLE IN THE FOLLOWING CONFIGURATIONS**



**H-GEAR CONFIGURATION**

This is the standard configuration and is recommended when available space allows it.



**U-GEAR CONFIGURATION**

This is the best solution when space is limited.



**PTI-GEAR CONFIGURATION**

This is the most flexible configuration. Depending on the desired speed and/or if the design of the vessel calls for two small engines instead of one large engine; the propeller can be run optimally on one or two engines.



© Magne Langåker

## TRYM, FREY, DAGNING, MJØLNER

2024

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	OMA Baatbyggeri
Hull Design	OMA Baatbyggeri
Length and beam	30 m / 11 m
Material	Aluminium
Main Engines	2 x Ramme HW 500L (2,94MWh battery capacity)
Vessel Speed MCR	24 knots (2 x 749 kW @ 2200 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF 3310NR (5,0:1)
Arrangement	Dia: 1475 mm ~Ae/Ao: 0,6 (9P820)
Shaft Diameter/inclination	100 mm / 4,0 deg
Rudder	Servogear Effect Rudder 9R054
Classification	Norwegian Maritime Directorate



## FJORDSTRØM, FJORDTIND

2023–2024

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	BR. Aa
Hull Design	Paradis Nautica
Length and beam	40,80 m / 10,3 m
Material	Carbon Composite
Main Engines	4 x Ramme HW 500M (4MWh battery capacity)
Vessel Speed MCR	30 knots (4 x 650 kW @ 2200 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD295PTI (4,2:1)
Arrangement	Dia: 1500 mm ~Ae/Ao: 10,625 (9P824)
Shaft Diameter/inclination	110 mm / 5,0 deg
Rudder	Servogear Effect Rudder 9R054
Classification	DNV



## RYGERELEKTRA

2020

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Br. Aa
Hull Design	Paradis Nautica
Length and beam	41 m / 11 m
Material	Carbon composite
Main Engines	Ramme HW540 L (2MWh battery capacity)
Vessel Speed MCR	19,9 knots (2 x 450 kW @ 1180 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD220H (2,95 :1)
Arrangement	Dia: 1475 mm ~Ae/Ao: 0,45 (9P820)
Shaft Diameter/inclination	100 mm / 4,0 deg
Rudder	Servogear Effect Rudder 9R075
Classification	DNV

AWARD WINNING\*



## MEDSTRØM

2022

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Fjellstrand
Hull Design	Universities of Stratklyde and Athens
Length and beam	31 m / 9 m
Material	Aluminium
Main Engines	2 x Alconza MNH (1,5MWh battery capacity)
Vessel Speed MCR	27 knots (2 x 550 kW @ 1380 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	HDE220H (2,952:1)
Arrangement	Dia: 1375 mm ~Ae/Ao: 0,45 (9P810)
Shaft Diameter/inclination	90 mm / 3 deg
Rudder	Servogear Effect Rudder 9R056
Classification	DNV



## LEGACY- AND FUTURE OF THE FJORDS

2017–2019

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Br. Aa
Hull Design	Paradis Nautica
Length and beam	42,5 m / 15,2 m
Material	Carbon fiber composite
Main Engines	2 x IKM 355-475 (1,8MWh battery capacity)
Vessel Speed MCR	19,9 knots (2 x 450 kW @ 1180 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD220H (2,952:1)
Arrangement	Dia: 1475 mm ~Ae/Ao: 0,45 (9P820)
Shaft Diameter/inclination	100 mm / 4 deg
Rudder	Yard Supply
Classification	DNV



## FJORDØY

2019

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	GS Marine
Hull Design	Ingebjørn Åsheim
Length and beam	24 m / 7 m
Material	GRP Composite
Main Engines	Danfoss PMI540-T1500 (1,35 MWh battery capacity)
Vessel Speed MCR	25 knots (2 x 441 kW @ 1900 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HDE 220 H (2,952:1)
Arrangement	Dia. 1 050mm ~Ae/Ao: 0,525 (9P805)
Shaft Diameter/inclination	80 mm / 5,0 deg
Rudder	Servogear Effect Rudder 9R056
Classification	DNV



## FJORDLED

2019

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	GS Marine
Hull Design	Ingebjørn Åsheim
Length and beam	24 m / 7,0 m
Material	GRP Composite
Main Engines	Volvo D13 / Oswald MSF13.3
Vessel Speed MCR	25 knots (2 x 441 kW @ 1900 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HDE 220 H (2,952:1)
Arrangement	Dia. 1 050mm ~Ae/Ao: 0,525 (9P805)
Shaft Diameter/inclination	80 mm / 5,0 deg
Rudder	Servogear Effect Rudder 9R056
Classification	DNV



## FJORDGYN

2022

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	OMA Baatbyggeri
Hull Design	OMA Baatbyggeri
Length and beam	39,75 m / 10,6 m
Material	Aluminium
Main Engines	4 x MTU 10V2000 M72 / 2 x Ramme HW 500S
Vessel Speed MCR	32,4 knots (4 x 900 kW @ 2250 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD295PTI (4,2:1)
Arrangement	Dia: 1475 mm ~Ae/Ao: 0,75 (9P820)
Shaft Diameter/inclination	120 mm / 5,5 deg
Rudder	Servogear Effect Rudder 9R055
Classification	DNV



## BRIM, BERG

2019–2020

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Maritime Partner
Hull Design	Wave Propulsion / Hareide Design Mill
Length and beam	25,2 m / 11,2 m
Material	Aluminium
Main Engines	2 x Scania DI 13 / 2 x Oswald MFS13-30-6WI
Vessel Speed MCR	19,9 knots (2 x 294 kW @ 1800 rpm) / 11,2 knots (2 x 85 kW @ 1800rpm)
Bollard	NA

### SERVOGEAR

Gearbox	Servogear HDE220H (3,609:1)
Arrangement	Dia: 1375 mm ~Ae/Ao: 0,750 (9P824 130 15relifl)
Shaft Diameter/inclination	90 mm / 3,5 deg
Rudder	Servogear Effect Rudder 9R056
Classification	DNV



## HST ELLA, HST FRANCIS, HST MILLIE

2021–2023

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Diverse Marine
Hull Design	Chartwell Marine
Length and beam	24,85 m / 8,65 m
Material	Aluminium
Main Engines	Caterpillar C32 Acert / Danfoss EM-PMI375-T800
Vessel Speed MCR	27 knots (2 x 1080 kW @ 2300 rpm) / 11 knots (2 x 182 kW @ 2300 rpm)
Bollard	15 tons

### SERVOGEAR ECOFLOW PROPULSOR™

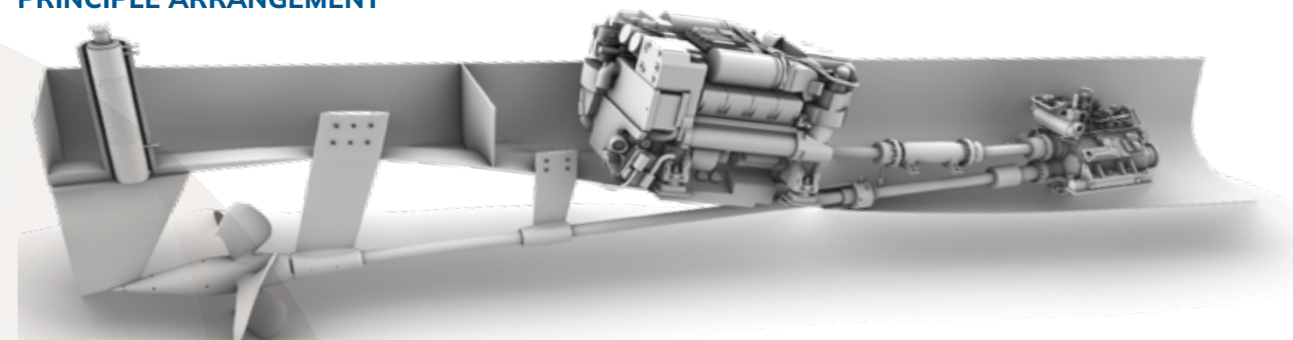
Gearbox	SERVOGEAR HD295PTI (3,3:1)
Arrangement	Dia: 1175 mm ~Ae/Ao: 0,760 (9P820)
Shaft Diameter/inclination	100 mm / 5,0 deg
Rudder	Servogear Effect Rudder 9R054
Classification	BV



## HYDROCAT 48, 55

2021– 2022

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Doc en Scheepsbouw
Hull Design	Morelli & Melvin
Length and Beam	25 m / 7,3 m
Material	Aluminium
Main Engines	MAN D2862 DF
Vessel Speed MCR	28 knots (2 x 749 kW @ 2100 rpm)
Bollard	13 tons

### SERVOGEAR ECOFLOW PROPULSOR™

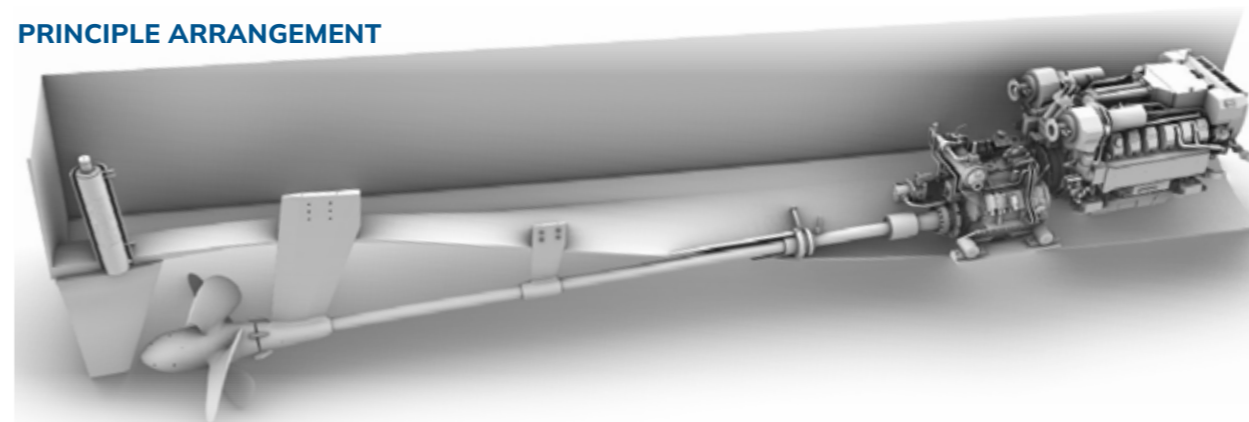
Gearbox	SERVOGEAR HD 220 U (2,952:1)
Propeller Arrangement	Dia. 1 050mm ~Ae/Ao: 0,725 (9P805)
Shaft Diameter/inclination	90 mm / 5,0 deg
Rudder	Servogear Effect Rudder 9R054
Classification	LRS / BV



## HYDROCAT 60

2025

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Doc en Scheepsbouw
Hull Design	Morelli & Melvin
Length and beam	27 m / 8,4 m
Material	Aluminium
Main Engines	MAN D2862 DF
Vessel Speed MCR	31 knots (2 x 1260 kW @ 2100 rpm)
Bollard	21 tons

### SERVOGEAR ECOFLOW PROPULSOR™

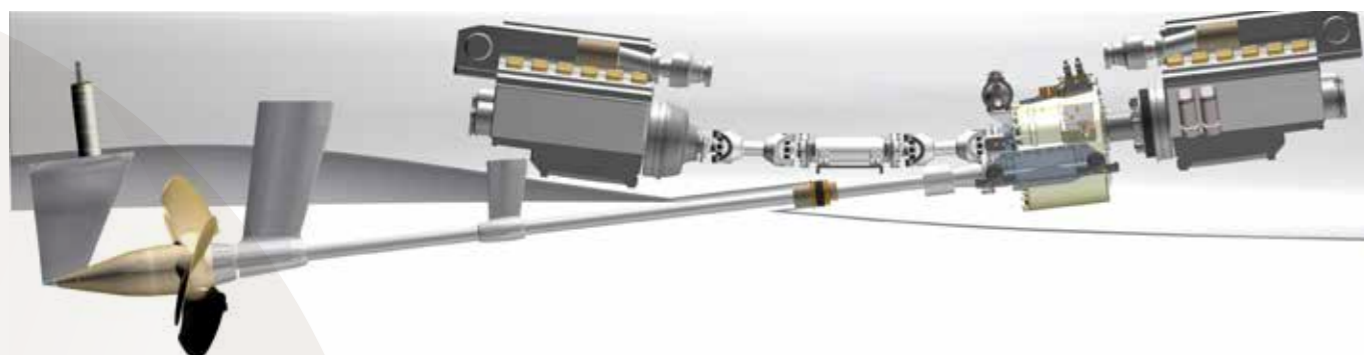
Gearbox	SERVOGEAR HD295 H (3,296:1)
Arrangement	Dia. 1 300mm ~Ae/Ao: 0,725 (9P820)
Shaft Diameter/inclination	100 mm / 5,0 deg
Rudder	Servogear Effect Rudder 9R055
Classification	LRS / BV



## TRANSPORTER

2025

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Hvide Sande Shipyard
Hull Design	Incat Crowter
Length and beam	25 m / 8,0 m
Material	Aluminium
Main Engines	Scania DI16 Methanol
Vessel Speed MCR	24 knots (4 x 415 kW @ 2100 rpm)
Bollard	14 tons

### SERVOGEAR ECOFLOW PROPULSOR™

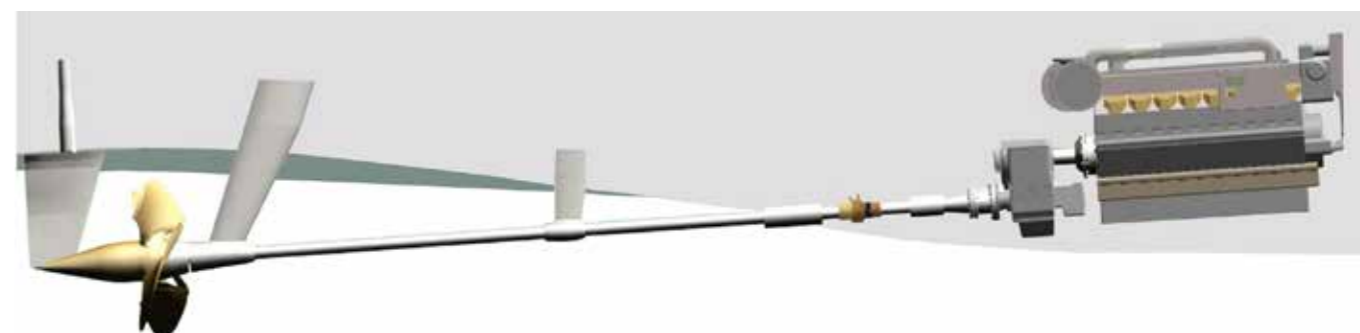
Gearbox	SERVOGEAR HD295 PTI (3,296:1)
Arrangement	Dia. 1 225mm ~Ae/Ao: 0,725 (9P810)
Shaft Diameter/inclination	100 mm / 8,7 deg
Rudder	Servogear Effect Rudder 9R058
Classification	DNV



## IHSAN ALYANAK, PROF. DR. AZIZ SANCAR

2017–2018

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Özata Shipyard
Hull Design:	TBS / Lindstøl design
Length	39 m
Material	Carbon fibre composite
Main Engines	2 x MTU 16V 4000M53
Vessel Speed MCR	28 knots (2 x 1840 kW @ 1800 rpm)

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF 7640 NR (3.826 : 1)
Propeller Arrangement	Dia: 1500 mm ~Ae/Ao: 0.750 (9P824)
Shaft Diameter/inclination	130 mm / 5.6 deg
Rudder	Servogear Effect Rudder 9R054
Classification	DNV

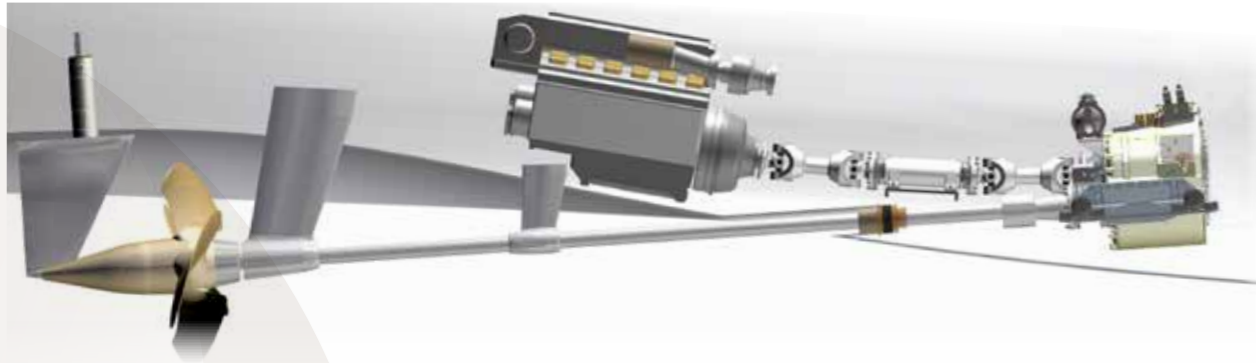


© Damen Shipyards

## QUEEN STAR 2

2015

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Damen Shipyard
Hull Design	Damen Design
Length	40 m
Material	Aluminium
Main Engines	2 x MTU 16V 4000 M63L
Vessel Speed MCR	35 knots (2240 kW @ 1800 rpm)

### SERVOGEAR ECOFLOW PROPULSOR™

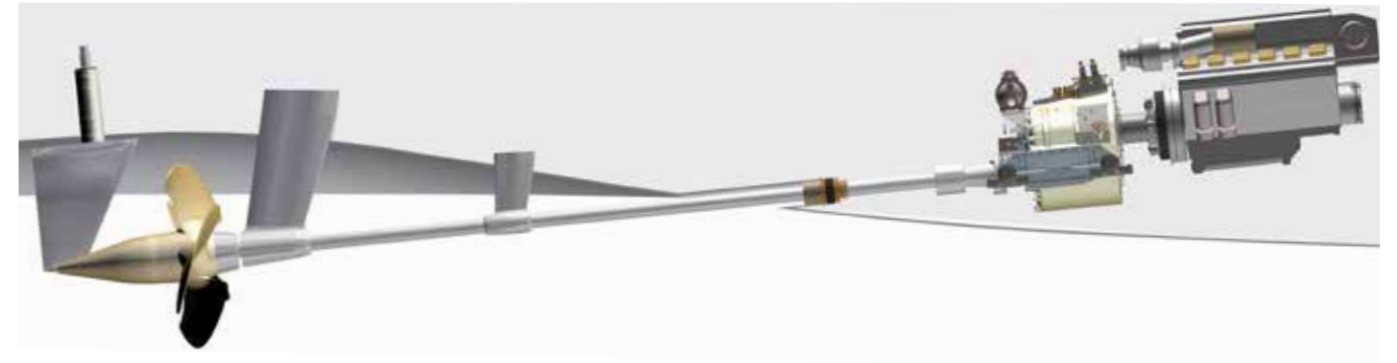
Gearbox	ZF 9350 NRU (4.522 : 1)
Propeller Arrangement	Dia: 1650 mm ~Ae/Ao: 0.7 (9P830)
Shaft Diameter/inclination	150 mm / 4.7 deg
Rudder	Servogear Effect Rudder 9R069
Classification	BV



## CAKABEY 01

2014–2016

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Özata Shipyard Hull 28–40
Hull Design	TBS / Lindstøl design
Length	39 m
Material	Carbon fibre composite
Main Engines	2 x Baudouin 12M26.2
Vessel Speed MCR	20 knots (2 x 736 kW @ 1800 rpm)

### SERVOGEAR ECOFLOW PROPULSOR™

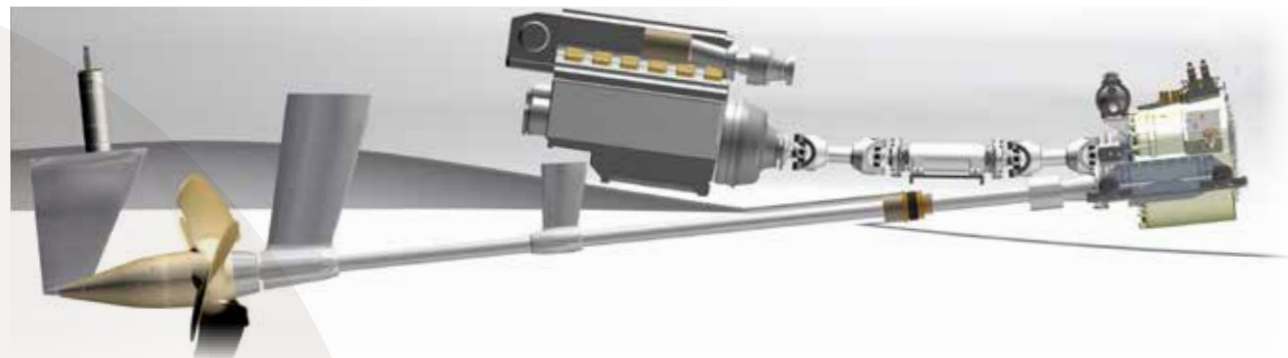
Gearbox	SERVOGEAR HD295H (4.2 : 1)
Propeller Arrangement	Dia: 1500 mm ~Ae/Ao: 0.55 (9P820)
Shaft Diameter/inclination	100 mm / 5.8 deg
Rudder	Servogear Effect Rudder 9R056
Classification	DNV



## HANØY

2014

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Oma Baatbyggeri
Hull Design	Oma Båtbyggeri
Length	26 m
Material	Aluminium
Main Engines	2 x MTU 8V 2000M72
Vessel Speed MCR:	27 knots (2 x 720 kW @ 2250 rpm)

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD220U (2.952 : 1)
Propeller Arrangement	Dia: 1050 mm ~Ae/Ao: 0.725 (9P805)
Shaft Diameter/inclination	90 mm / 4.0 deg
Rudder	Servogear Effect Rudder 9R043
Classification	Norwegian Maritime Directorate

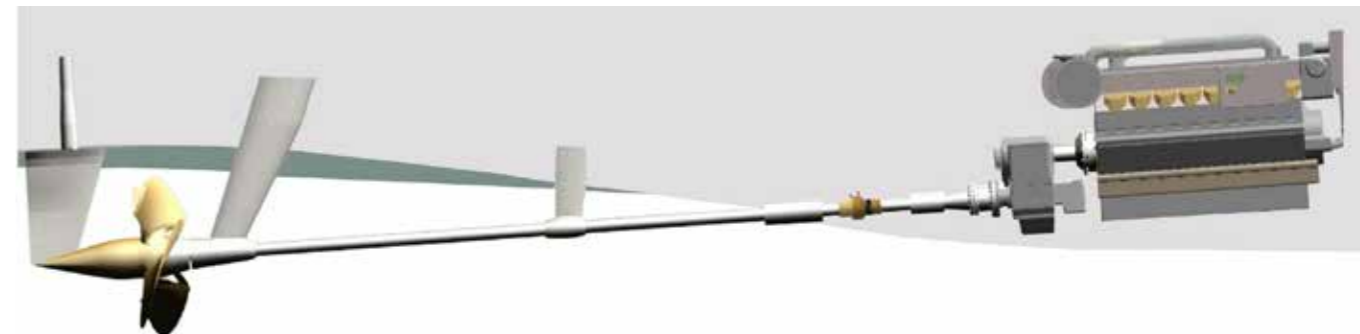
AWARD WINNING\*



## NANTUCKET EXPRESS

2012

### PRINCIPLE ARRANGEMENT



\* Workboat International Environmental Award 2013

### MAIN PARTICULARS

Shipyard	Gladding Hearn
Hull Design	Incat Crowther
Length and Beam	43 m / 10.5 m
Material	Aluminium
Main Engines	2 x MTU 16V4000 M53
Vessel Speed MCR	36 knots (2 x 1840 kW @ 1800 rpm)

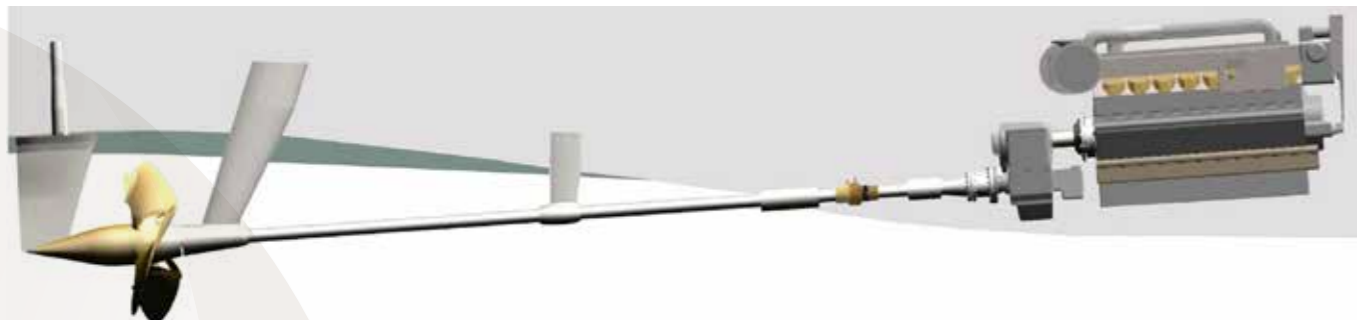
### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF7640NR (3.44 : 1)
Propeller Arrangement	Dia: 1500 mm ~Ae/Ao: 0.75 (9P820)
Shaft Diameter/inclination	120 mm / 5 deg
Rudder	Servogear Effect Rudder 9R054
Classification	USCG



**RYGERSOL** (EX. SOLLIFJELL), **KRILO NOMADIC** (EX. KISTEFJELL), **ANDELA** (EX. FLØYFJELL)  
2009–2010

#### PRINCIPLE ARRANGEMENT



#### MAIN PARTICULARS

Shipyard	Baatservice Mandal
Hull Design	Båtservice Mandal, Sealord 35
Length and Beam	35 m / 10.5 m
Material	Carbon fibre reinforced sandwich
Main Engines	2 x MTU 12V 2000 M72
Vessel Speed MCR	34 knots (2 x 1080 kW @ 2250 rpm)

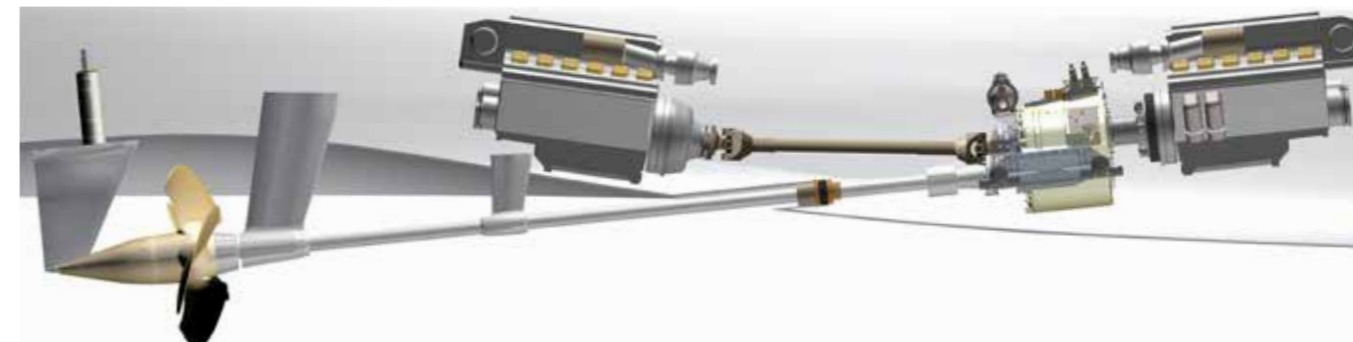
#### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF3350NR (5.0 : 1)
Propeller Arrangement	Dia: 1475 mm Ae/Ao: 0.65 (9P820)
Shaft Diameter/inclination	110 mm / 4 deg
Rudder	Servogear Effect Rudder 49R054
Classification	Norwegian Maritime Directorate



**BURAK REIS, SALIH REIS, KEMAL REIS, MURAT REIS, MEHMET REIS**  
2006–2007

#### PRINCIPLE ARRANGEMENT



#### MAIN PARTICULARS

Shipyard	Damen Shipyard
Hull Design	Damen Design
Length and Beam	41.5 m / 12.4 m
Material	Aluminium
Main Engines	4 x Caterpillar C32
Vessel Speed MCR	34.2 knots (4 x 1045 kW @ 2100 rpm)

#### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD450PTI (5 : 1)
Propeller Arrangement	Dia: 1750 mm ~Ae/Ao: 0.675 (9P830)
Shaft Diameter/inclination	130 mm / 4.7 deg
Rudder	Servogear Effect Rudder 9R069
Classification	BV

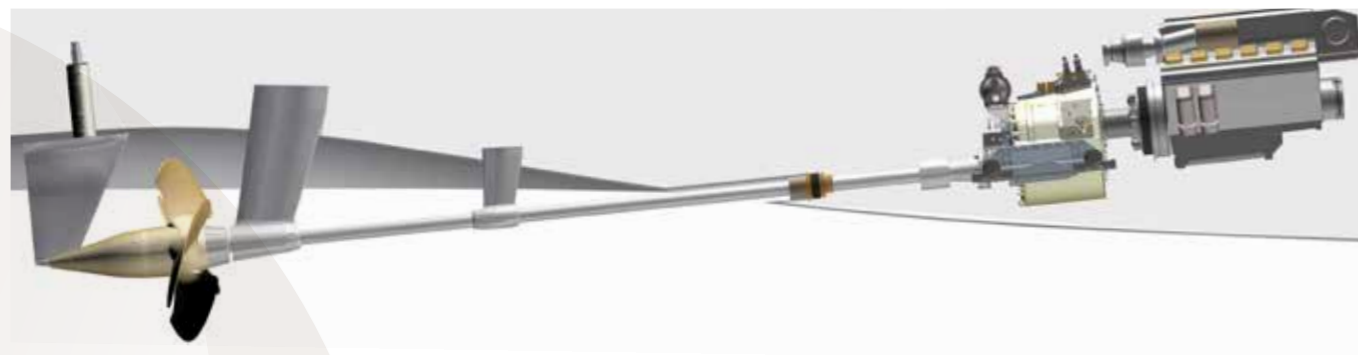


© Brødrene Aa

## BRØDRENE AA SHIPYARD

2005–2024 – numerous vessel

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Br. Aa
Hull Design	Marintek
Length and Beam	18–42 m / 7.5–8.8 m
Material	Carbon fibre reinforced sandwich
Main Engines	2 x MAN2842 / MTU10V 2000 M72 / Scania D116M
Vessel Speed MCR	35 knots (2 x 900 kW @ 2250 rpm)

### SERVOGEAR ECOFLOW PROPULSOR™

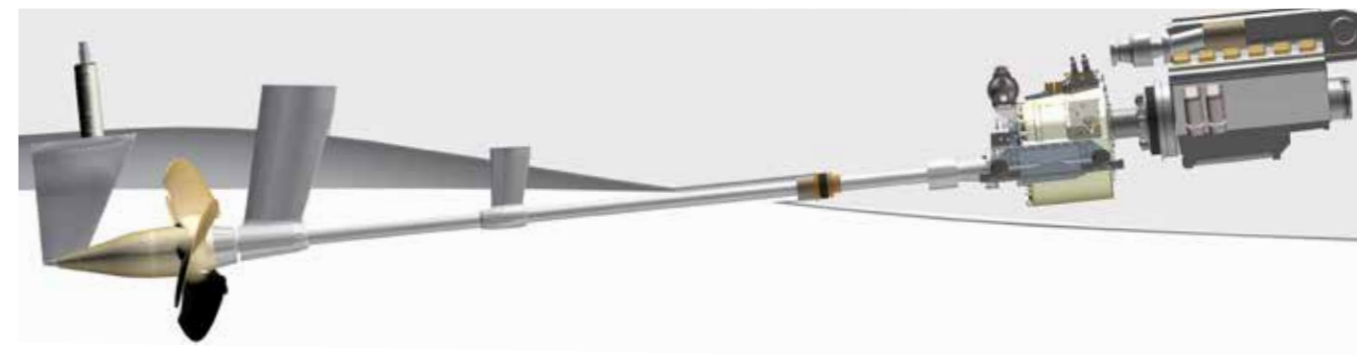
Gearbox	SERVOGEAR HD220H (2.952 : 1, 2.609)
Propeller Arrangement	Dia: 1000/1050/1075 mm ~Ae/Ao: 0.675 (9P805)
Shaft Diameter/inclination	90 mm / 5 deg
Rudder	Servogear Effect Rudder 9R030 / 9R043
Classification	DNV / Norwegian Maritime Directorate



## HOLLENDAREN

2021

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Brødrene Aa
Hull Design	Paradis Nautica
Length and Beam	38 m / 10 m
Material	Carbon fiber
Main Engines	MAN D2862
Vessel Speed MCR	32 knots (2 x 882 kW @ 2100 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

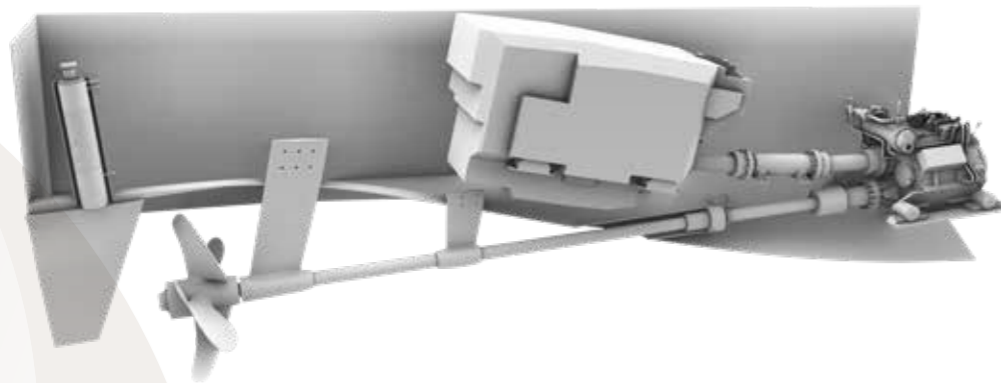
Gearbox	SERVOGEAR HD 295 H (3,296:1)
Propeller Arrangement	Dia. 1 350mm ~Ae/Ao: 0,625 (9P820)
Shaft Diameter/inclination	110 MM / 5,0 DEG
Rudder	Servogear Effect Rudder 9R054
Classification	DNV



## NJORD THUNDER, NJORD WIND

2019

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Cheoy Lee Shipyard Ltd
Hull Design	BMT
Length and Beam	23 m / 8 m
Material	Aluminium
Main Engines	2 x MAN 2862LE435
Vessel Speed MCR	25,8 knots (2 x 882 kW @ 2100 rpm)
Bollard	15,6 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD295U (3,3:1)
Arrangement	Dia: 1200 mm ~Ae/Ao: 0,75 (9P810)
Shaft Diameter/inclination	100 mm / 5,5 deg
Rudder	Servogear Effect Rudder 9R054
Classification	BV



## VENTUS FORMOSA

2020

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Penguin Shipyard
Hull Design	BMT
Length and Beam	34 m / 10 m
Material	Aluminium
Main Engines	2 x MTU 16V2000 M72
Vessel Speed MCR	25,1 knots (2 x 1440 kW @ 2250 rpm)
Bollard	25 tons

### SERVOGEAR ECOFLOW PROPULSOR™

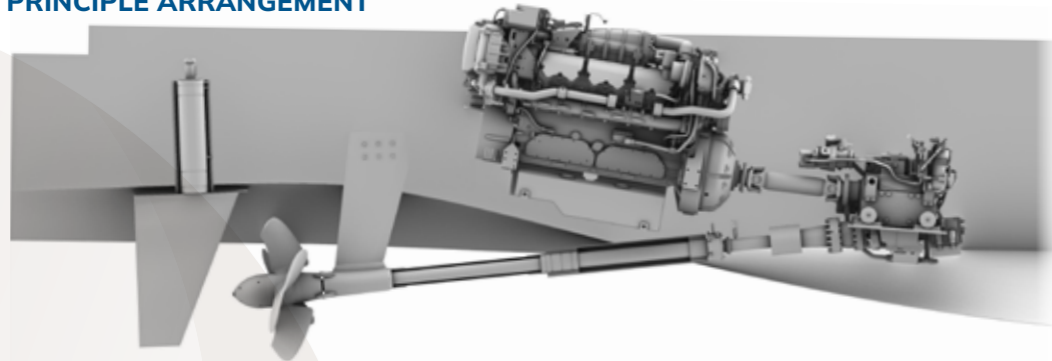
Gearbox	ZF5055NRV (3,429:1)
Arrangement	Dia: 1350 mm ~Ae/Ao: 0,75 (9P820)
Shaft Diameter/inclination	120 mm / 6,5 deg
Rudder	Servogear Effect Rudder 9R108
Classification	BV



## VENTUS DAAN, VENTUS DAJIA

2025

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Strategic Marine
Hull Design	BMT
Length and beam	27 m / 11 m
Material	Aluminium
Main Engines	Caterpillar C32
Vessel Speed MCR	27 knots (2 x 1081 kW @ 2100 rpm)
Bollard	17 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF 3055 V (3,0:1)
Propeller Arrangement	Dia. 1 175mm ~Ae/Ao: 0,76 (9P812)
Shaft Diameter/inclination	90 mm / 8,7 deg
Rudder	Servogear Effect Rudder 9R069
Classification	BV / CR

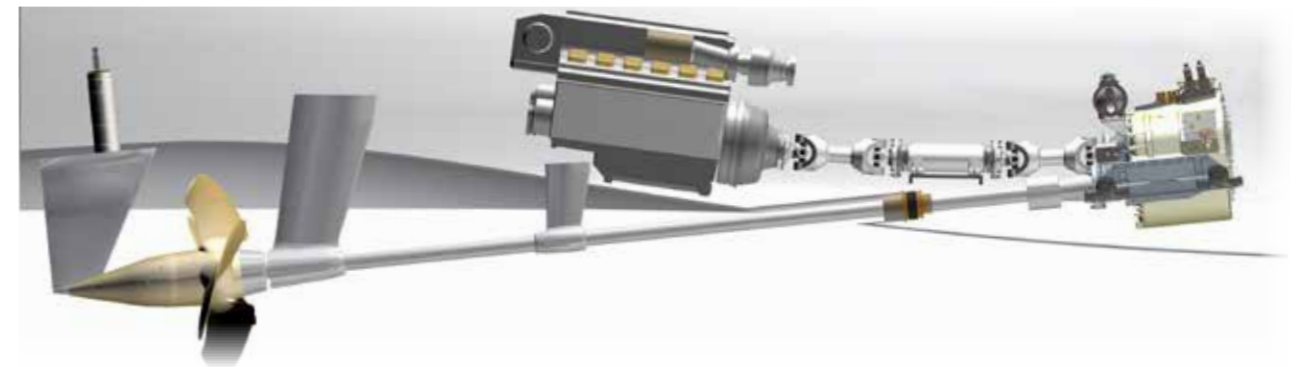


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## ICENI VENTURE, ICENI LEGEND

2015–2017

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Alicat Southboats
Hull Design	South Boats IOW
Length and Beam	22.8 m / 8 m
Material	Aluminium
Main Engines	2 x MAN 12V 1400
Vessel Speed MCR	30 knots (2 x 1029 kW @ 2100 rpm)
Bollard	16 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox:	SERVOGEAR HD295U (3.3 : 1)
Propeller Arrangement	Dia: 1225 mm ~Ae/Ao: 0.725 (9P810)
Shaft Diameter/inclination	100 mm / 5.5 deg
Rudder	Servogear Effect Rudder 9R042
Classification	DNV



## WINDCAT WORKBOATS 24–39

2009–2015

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Doc en Scheepsbouw
Hull Design	Morrelli & Melvin
Length and Beam	18 m / 6.1 m
Material	Aluminium
Main Engines	2 x MTU 8V 2000 M72 / Volvo D16MH
Vessel Speed MCR	30 knots (2 x 720 kW @ 2250 rpm) / 28 knots (2 x 552 kW @ 1900 rpm)
Bollard	13 tons / 11 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD220U (2.952 : 1)
Propeller Arrangement	Dia: 1075 mm ~Ae/Ao: 0.675 (9P805)
Shaft Diameter/inclination	90 mm / 6.0 deg
Rudder	Servogear Effect Rudder 9R026
Classification	MCA Cat2 / DNV / GL



## WINDCAT WORKBOATS 40–56

2016–2023

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Dok en Scheepsbouw / Neptune Shipyard
Hull Design	Morrelli & Melvin
Length and Beam	22 m / 7.8 m
Material	Aluminium
Main Engines	2 x MTU 8V 2000 M72 / 2 x MAN 2862
Vessel Speed MCR	30 knots (2 x 720 kW @ 2250 rpm) / (2 x 749 kW @ 2100 rpm)
Bollard	13 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD220U (2.952 : 1)
Propeller Arrangement	Dia: 1050 mm ~Ae/Ao: 0.725 (9P805)
Shaft Diameter/inclination	90 mm / 5.0 deg
Rudder	Servogear Effect Rudder 9R054
Classification	DNV / BV / LRS



## WINDCAT WORKBOATS 57-65

2024-2025

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Dok en Scheepsbouw / Neptune Shipyard
Hull Design	Morrelli & Melvin
Length and beam	27 m / 8,43 m
Material	Aluminium
Main Engines	2 x MAN Dual Fuel
Vessel Speed MCR	31 knots (2 x 1260 kW @ 2100 rpm)
Bollard	20,9 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD295H (3,3:1) hybrid ready
Arrangement	Dia: 1300 mm ~Ae/Ao: 0,725 (9P820)
Shaft Diameter/inclination	110 mm / 5,0 deg
Rudder	Servogear Effect Rudder 9R055
Classification	LRS / BV



## WINDCAT WORKBOATS 101

2009

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Jachtwerf Bloemsma
Hull Design	Morrelli & Melvin
Length and Beam	27 m / 9.1 m
Material	Aluminium
Main Engines	4 x MTU 8V 2000 M72
Vessel Speed MCR	31 knots (4 x 720 kW @ 2250 rpm)
Bollard	25 tons

### SERVOGEAR ECOFLOW PROPULSOR™

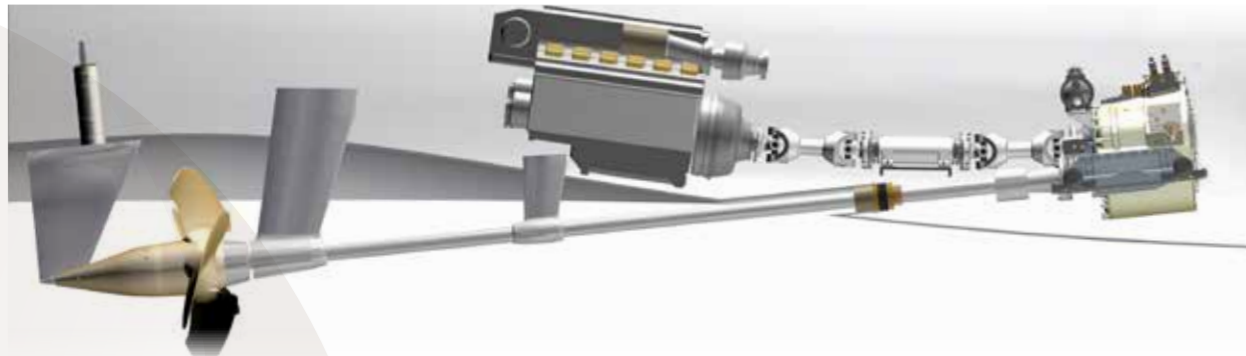
Gearbox	SERVOGEAR HD295 PTI (3.3 : 1)
Propeller Arrangement	Dia: 1300 mm ~Ae/Ao: 0.725 (9P820)
Shaft Diameter/inclination	110 mm / 4 deg
Rudder	Servogear Effect Rudder 9R042
Classification	DNV



## SEACAT FREEDOM, SEACAT LIBERTY, SEACAT ENTERPRISE

2016–2017

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	South Boats IOW
Hull Design	South Boats IOW
Length and Beam	23 m / 8 m
Material	Aluminium
Main Engines	2 x MTU 12V2000M72
Vessel Speed MCR:	30 knots (2 x 1080kW @ 2250 rpm)
Bollard	16 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD295U (3,3 : 1)
Propeller Arrangement	Dia: 1200 mm ~Ae/Ao: 0,750 (9P810)
Shaft Diameter/inclination	100 mm / 5,5 deg
Rudder	Servogear Effect Rudder 9R043
Classification	DNV



## COSMASTER, COSMATE, COSMARINER

2021–2022

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Next Generation Shipyard
Hull Design	Van Dorresteijn Design
Length and beam	26,25 m / 9,6 m
Material	Aluminium
Main Engines	MAN D2862
Vessel Speed MCR	27 knots (2 x 1066 kW @ 2100 rpm)
Bollard	17 tons

### SERVOGEAR ECOFLOW PROPULSOR™

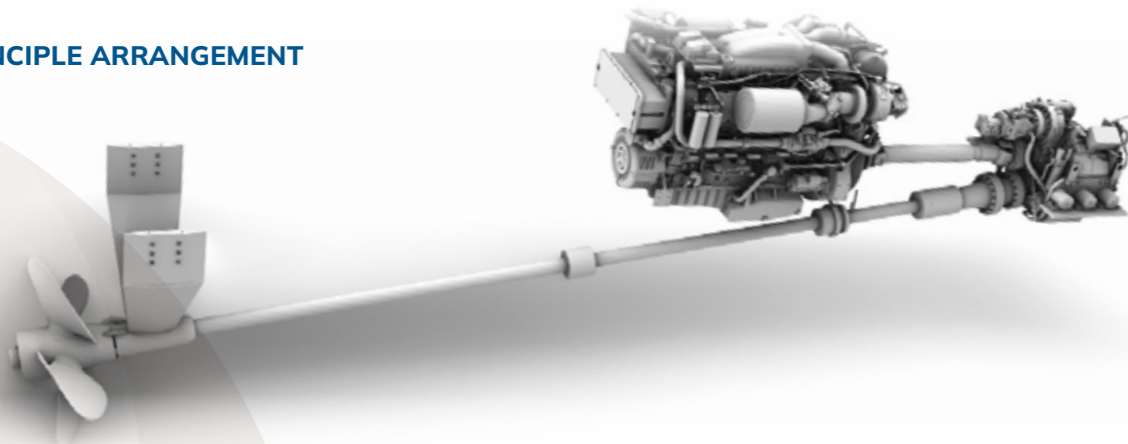
Gearbox	SERVOGEAR HD295 (3,3:1)
Arrangement	Dia: 1225 mm ~Ae/Ao: 0,7 (9P810)
Shaft Diameter/inclination	100 mm / 5,0 deg
Rudder	Servogear Effect Rudder 9R069
Classification	BV



## MAINPRIZE MO9, MO10, MO11

2023–2024

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Manor Marine / Strategic Marine
Hull Design	Walker Marine Design
Length and beam	26,05 m / 11 m
Material	Aluminium
Main Engines	2 x Caterpillar C32B
Vessel Speed MCR	30 knots (2 x 1491 kW @ 2300 rpm)
Bollard	26 tons

### SERVOGEAR PROPULSOR

Gearbox	ZF5050 NRV (3,429:1)
Arrangement	Dia 1325 mm ~Ae/Ao:0,750 (9P820)
Shaft Diameter/inclination	110 mm / 8 deg
Rudder	Yard Supply
Classification	BV

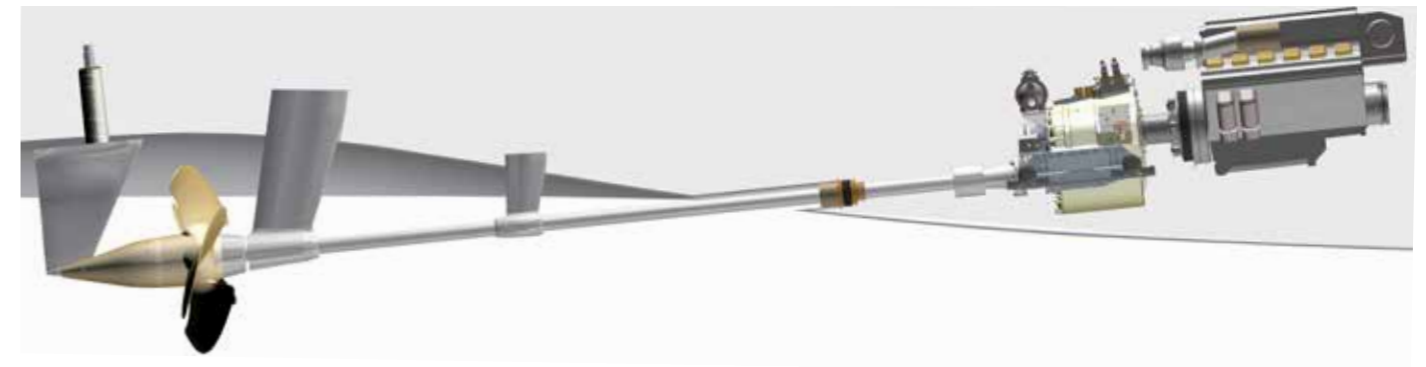


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## JIF SURVEYOR

2015

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Neptune
Hull Design	Vripack
Length	30 m
Material	Aluminium
Main Engines	2 x Caterpillar C32
Vessel Speed MCR	29 knots (2 x 1081 kW @ 2300 rpm)
Bollard	16 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD295H (4.2 : 1)
Propeller Arrangement	Dia: 1375 mm ~Ae/Ao: 0.65 (9P820)
Shaft Diameter/inclination	110 mm / 6.5 deg
Rudder	Servogear Effect Rudder 9R054
Classification	BV

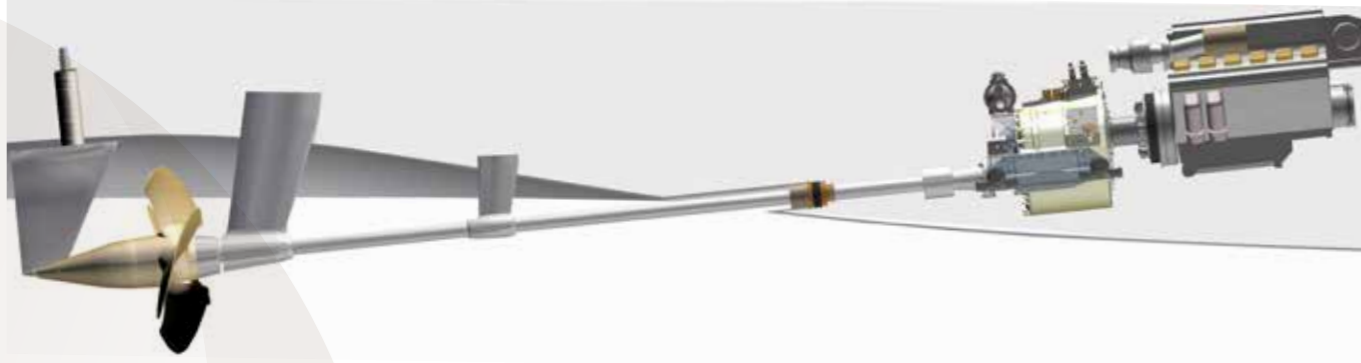


© A2 Sea AS

## LINA

2014

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Danish Yachts
Hull Design	Hauschildt Marine AS
Length	25 m
Material	Carbon fibre reinforced sandwich
Main Engines	2 x MTU 10V2000 M72
Vessel Speed MCR	24 knots (2 x 900 kW @ 2250 rpm)
Bollard	15 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox:	SERVOGEAR HD220H (2.952 : 1)
Propeller Arrangement	Dia: 1150 mm ~Ae/Ao: 0.70 (9P810)
Shaft Diameter/inclination	100 mm / 1.0 deg
Rudder	Servogear Effect Rudder 9R042
Classification	DNV

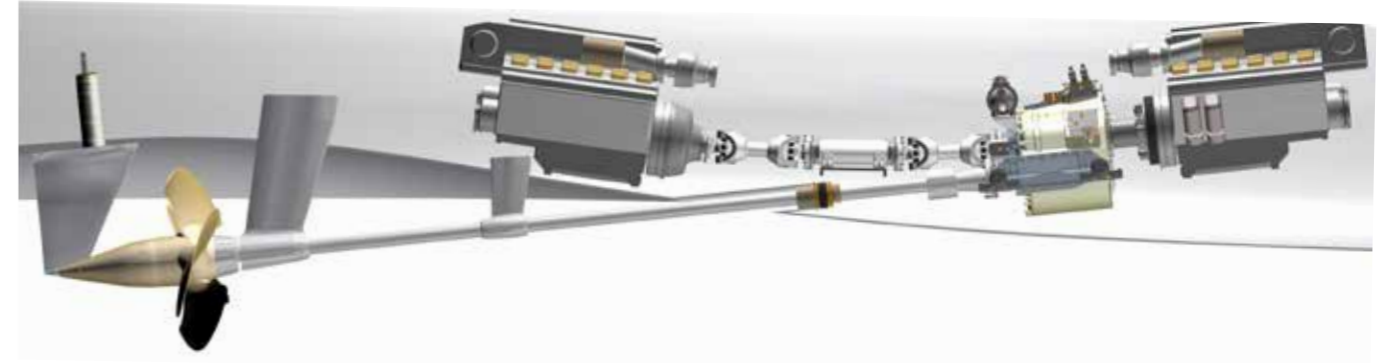


© F. Vornholt

## WORLD BORA, WORLD CALIMA

2013–2014

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Fjellstrand
Hull Design	Fjellstrand
Length	30 m
Material	Aluminium
Main Engines	4 x Scania DI16
Vessel Speed MCR	25 knots (4 x 552 kW @ 1800 rpm)
Bollard	15 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD250PTI (2.63 : 1)
Propeller Arrangement	Dia: 1225 ~Ae/Ao: 0.725 (9P810)
Shaft Diameter/inclination	100 mm / 5.0 deg
Rudder	Servogear Effect Rudder 9R043
Classification	GL



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## WORLD SAIL, WORLD SEA, UMO MISTRAL, UMO SCIROCCO

2013–2014

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Fjellstrand
Hull Design	Fjellstrand
Length	25 m
Material	Aluminium
Main Engines	4 x Scania DI13
Vessel Speed MCR	25 knots (4 x 368 kW @ 1800 rpm)
Bollard	12 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD250PTI (2.63 : 1)
Propeller Arrangement	Dia: 1150 mm ~Ae/Ao: 0.725 (9P810)
Shaft Diameter/inclination	90 mm / 5.0 deg
Rudder	Servogear Effect Rudder 9R043
Classification	GL



## DEVELOPER, DISCOVERER

2013–2014

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Grovfjord Mekaniske Verksted
Hull Design	Grovfjord Mekaniske Verksted
Length	25 m
Material	Aluminium
Main Engines	4 x Volvo D16MH
Vessel Speed MCR:	31 knots (4 x 552 kW @ 1900 rpm)
Bollard	16 tons

### SERVOGEAR ECOFLOW PROPULSOR™

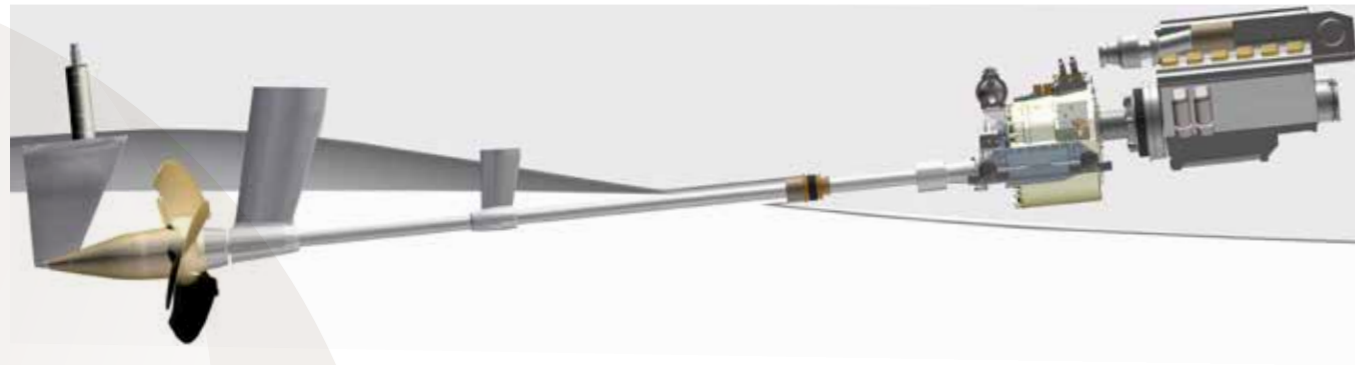
Gearbox	SERVOGEAR HD250PTI (2.63 : 1)
Propeller Arrangement	Dia: 1175 mm ~Ae/Ao: 0.725 (9P810)
Shaft Diameter/inclination	100 mm / 4.8 deg
Rudder	Servogear Effect Rudder 9R042
Classification	DNV



## ADVANCER, ARRIVER, ATTENDER, ASSISTER, ACHEIVER

2011–2013

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Grovfjord Mekaniske Verksted
Hull Design	Grovfjord Mekaniske Verksted
Length and Beam	20–23 m
Material	Aluminium
Main Engines	2 x MTU 8V2000 M72
Vessel Speed MCR	25 knots (2 x 720 kW @ 2250 rpm)
Bollard	14 tons

### SERVOGEAR ECOFLOW PROPULSOR™

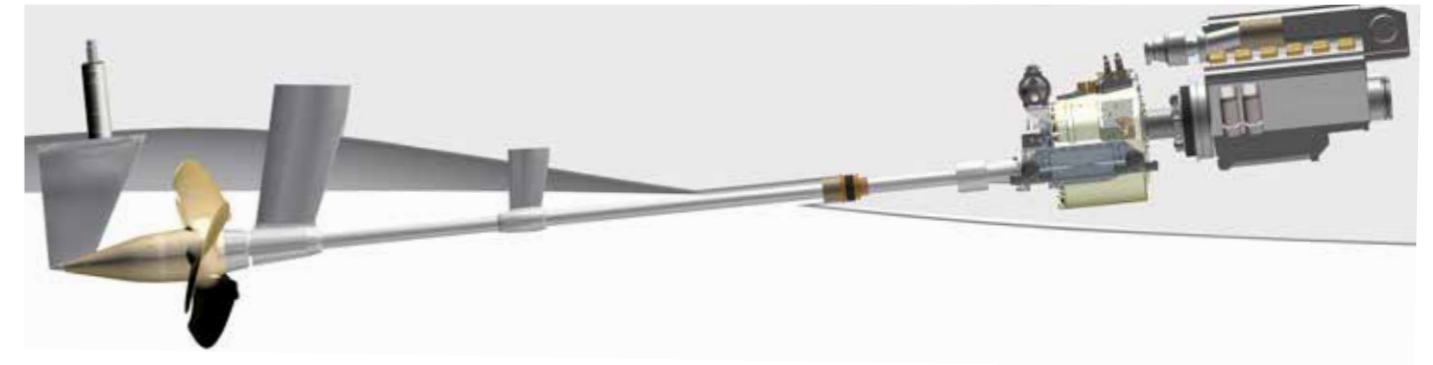
Gearbox	SERVOGEAR HD220H (2.609 : 1)
Propeller Arrangement	Dia: 975 mm ~Ae/Ao: 0.725 (9P805)
Shaft Diameter/inclination	80 mm / 3.5 deg
Rudder	Servogear Effect Rudder 9R026
Classification	DNV



## WIND TRANSPORTER, DJURS WIND, KATTEGAT WIND, ANHOLT WIND

2010–2012

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Hvide Sande Shipyard
Hull Design	Hvide Sande
Length	25 m
Material	Aluminium
Main Engines	2 x MTU 12V 2000 M72
Vessel Speed MCR	28 knots (2 x 1080 kW @ 2250 rpm)
Bollard	16 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD295H (3.3 : 1)
Propeller Arrangement	Dia: 1225 mm ~Ae/Ao: 0.725 (9P810)
Shaft Diameter/inclination	100 mm / 5.5 deg
Rudder	Servogear Effect Rudder 9R042
Classification	DNV



## JCAT HANAKO, JCAT HIBIKI II

2024–2025

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Cheoy Lee Shipyard Ltd
Hull Design	Incat Crowter
Length and beam	26,4 m / 9 m
Material	Aluminium
Main Engines	2 x Yanmar 12aym-WET
Vessel Speed MCR	27,8 knots (2 x 1220 kW @ 1900 rpm)
Bollard	22,2 tons

### SERVOGEAR ECOFLOW PROPULSOR™

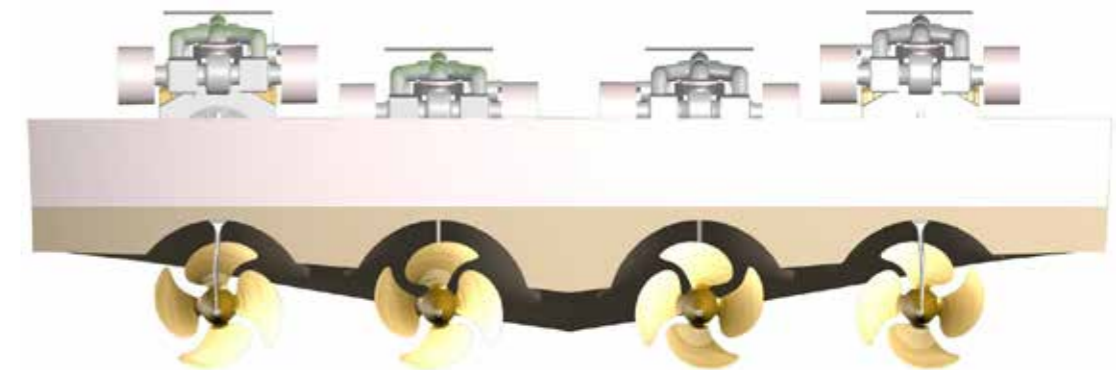
Gearbox	SERVOGEAR HD450H (4,208:1)
Arrangement	Dia: 1425 mm ~Ae/Ao: 0,725 (9P820)
Shaft Diameter/inclination	120 mm / 5,5 deg
Rudder	Servogear Effect Rudder 9R069
Classification	NK



## FOS POLARIS, FOS ORION, FOS GEMINI, FOS LEO, FOS VIRGO, FOS THOR

2009–2014

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	SAM Aluminium
Hull Design	Bluemarlin
Length and Beam	60 m / 11 m
Material	Aluminium
Main Engines	4 x Caterpillar 3516B
Vessel Speed MCR	31.5 knots (4 x 1920 kW @ 1600 rpm)
Bollard	60 tons

### SERVOGEAR ECOFLOW PROPULSOR™

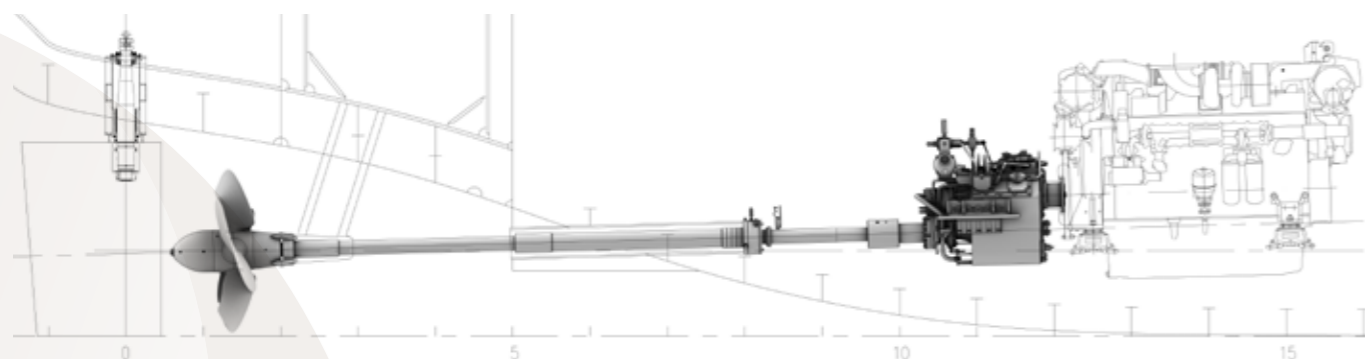
Gearbox	ZF7550 NR (2,548 : 1)
Propeller Arrangement	Dia: 1400 mm ~Ae/Ao: 0.765 (9P820)
Shaft Diameter/inclination	120 mm / 4.5 deg
Rudder	Servogear Effect Rudder 9R054
Classification	ABS



## FISHERY RESEARCHER 3, FISHERY RESEARCHER 6

2024

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Vallianz / PT United Sindo Perkasa
Hull Design	Khiam Chuan Marine
Length and beam	27,5 m / 6,8 m
Material	Steel
Main Engines	2 x Yanmar 6AY-M WET
Vessel Speed MCR	13,2 knots (2 x 610 kW @ 1900 rpm)
Bollard	12 tons

### SERVOGEAR PROPULSOR

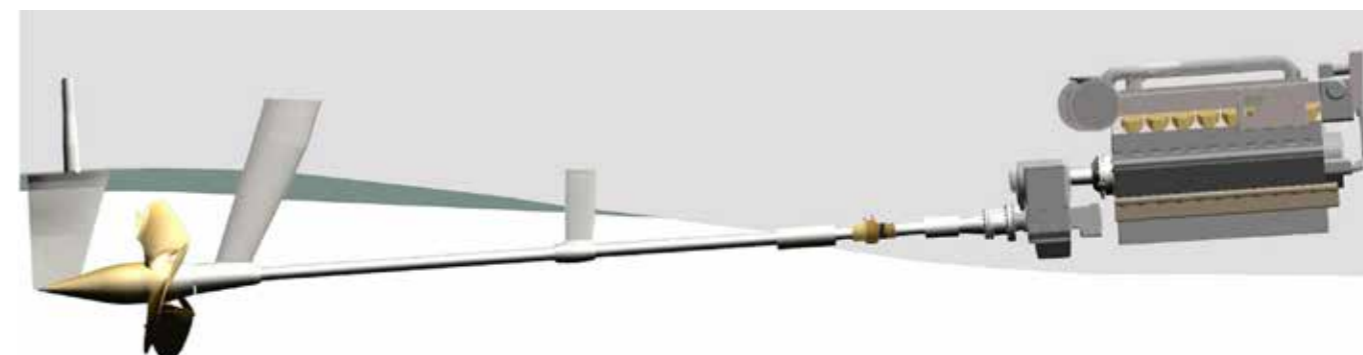
Gearbox	SERVOGEAR HD220H (2,952:1)
Arrangement	Dia: 1100 mm ~Ae/Ao: 0,700 (9P810)
Shaft Diameter/inclination	90 mm / 0 deg
Rudder	Yard supply
Classification	CR & ABS



## DORIA

2016

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Western Marine Shipyard Ltd.
Vessel Type	Patrol Vessel
Hull Design	Icarus Marine Pty. LTD
Length	54 m
Material	Steel
Main Engines	2 x MTU 16V4000 M93L + 1 x MTU 20V4000 M93
Vessel Speed MCR:	35 knots (2 x 3440 + 1 x 3900 kW @ 2100 rpm)

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF 9355 (4,958:1)
Propeller Arrangement	Dia: 2000 mm ~Ae/Ao: 0.75 (9P840)
Shaft Diameter/inclination	160 mm / 6.3 deg
Rudder	Servogear Effect Rudder 9R108
Classification	BV

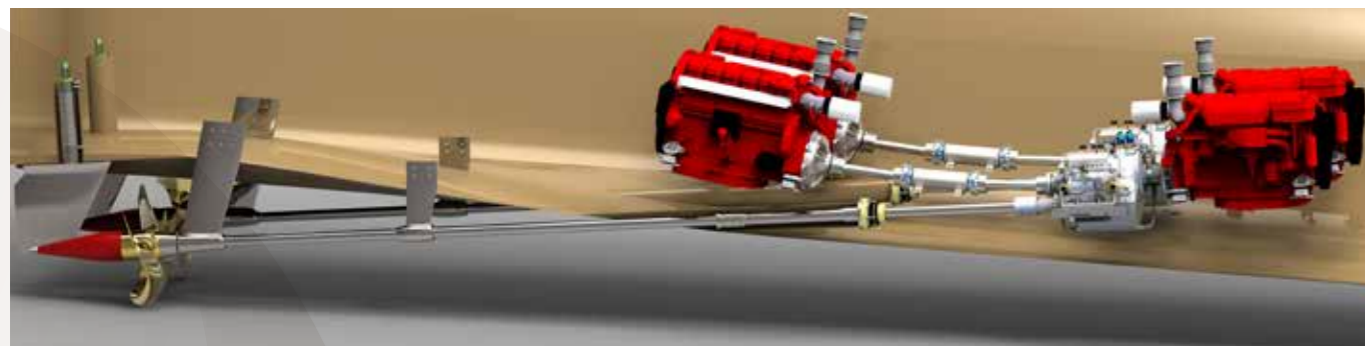


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## OCEAN EAGLE 43

2015, 2023, 2024

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Constructions Mecaniques De Normandie
Hull Design	Nigel Irens
Length	43 m
Material	Composite materials
Main Engines	4 x Scania DI13 070M / 4 x Caterpillar C18
Vessel Speed MCR	32.3 knots (4 x 405 kW @ 1800 rpm)

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD250PTI (2.63 : 1)
Propeller Arrangement	Dia: 1100 mm ~Ae/Ao: 0.700 (9P810)
Shaft Diameter/inclination	100 mm / 5.0 deg
Rudder	Servogear Effect Rudder 9R042
Classification	BV



## AL MAKHER, REZEKNE, JELGAVA, EXPLORER, CESIS, JAKOB PREI, VIESITE, SKRUNDA 2009–2012

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Abeking & Rasmussen
Hull Design	Abeking & Rasmussen
Length and Beam	25.6 m / 14.2 m
Material	Aluminium
Main Engines	2 x MAN 2842 LE 410
Vessel Speed MCR	22 knots (2 x 809 kW @ 2100 rpm)

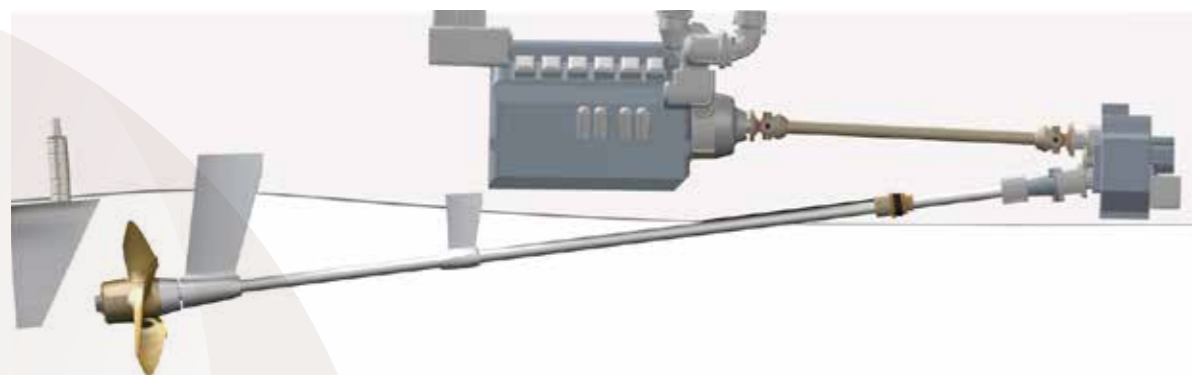
### SERVOGEAR PROPULSOR

Gearbox	SERVOGEAR HD295H (4.2 : 1)
Propeller Arrangement	Dia: 1475 mm ~Ae/Ao: 0.625 (9P820)
Shaft Diameter/inclination	120 mm / 0 deg
Rudder	Yards supply
Classification	GL



## RS DET NORSKE VERITAS, RS HARALD V, RS GJERT WILLHELMSSEN, RS HALFDAN GRIEG, RS KRISTIAN GERHARD JEBSEN 2003–2006

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Baatservice
Hull Design	Amble & Stokke
Length and Beam	22.5 m / 6.38 m
Material	Aluminium
Main Engines	2 x MTU 12V 396 TE74L
Vessel Speed MCR	29 knots (2 x 1500 kW @ 2000 rpm)

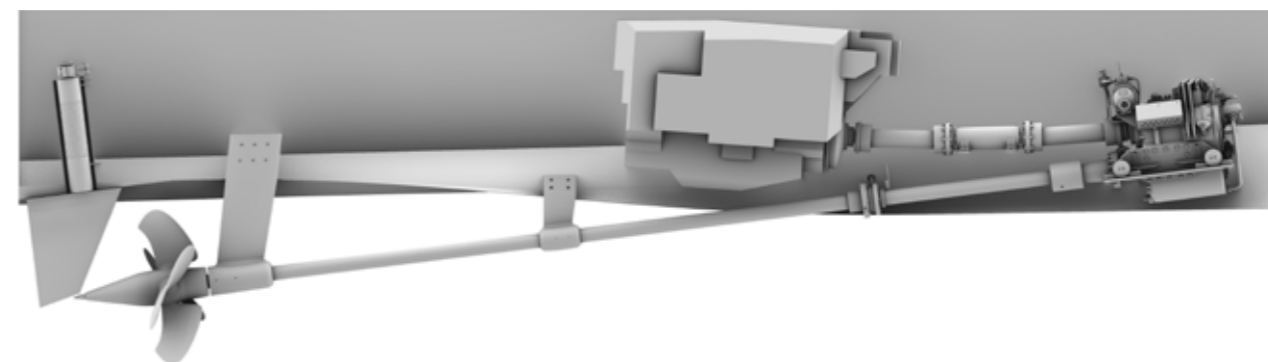
### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF BU4650 NRV (2.714 : 1)
Propeller Arrangement	Dia: 1325 mm ~Ae/Ao: 0.73 (9P820)
Shaft Diameter/inclination	110 mm / 7 deg
Rudder	Servogear Effect Rudder 9R054
Classification	DNV



## DONG HAI JIU 321, NAN HAI JIU 321, BEI HAI JIU 321 2017

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Afai Shipyard
Hull Design	Hunt Design
Length and Beam	21,3 m / 6,5 m
Material	Aluminium
Main Engines	2 x MAN D2862LE463
Vessel Speed MCR	28 knots (2 x 1066 kW @ 2300 rpm)
Bollard	16,7 tons

### SERVOGEAR ECOFLOW PROPULSOR™

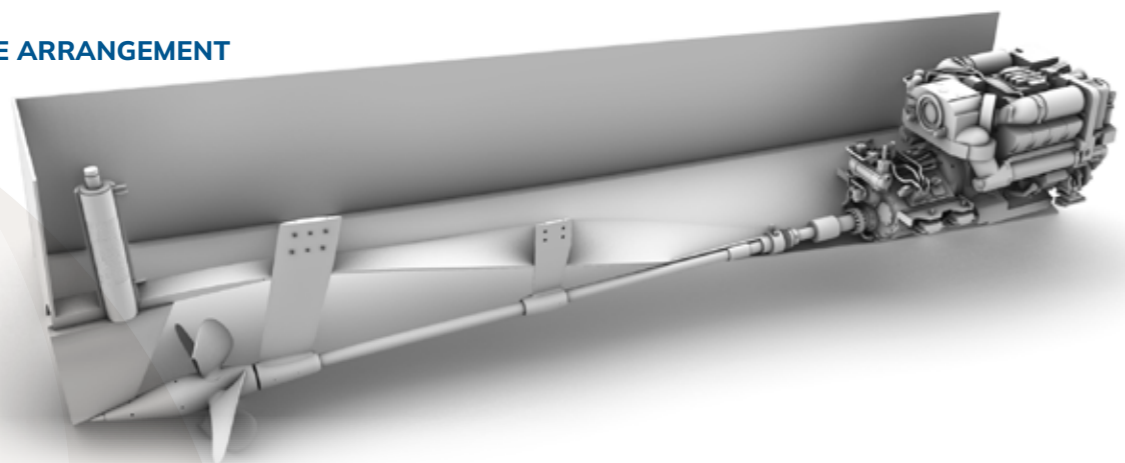
Gearbox	SERVOGEAR HD295U (3,3:1)
Arrangement	Dia: 1225 mm ~Ae/Ao: 0,725 (9P810)
Shaft Diameter/inclination	5,0 deg
Rudder	Servogear Effect Rudder 9R043
Classification	CCS



## RESCUE LIV

2025

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Swedeship
Hull Design	Otto L. Scheen Jr. AS
Length and Beam	16 m / 5 m
Material	GRP Composite
Main Engines	Scania DI16 076M
Vessel Speed MCR	32 knots (2 x 736 kW @ 2300 rpm)
Bollard	13 tons

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HDE 220 H (2,609:1)
Propeller Arrangement	Dia. 850mm ~Ae/Ao: 0,77 (9P805)
Shaft Diameter/inclination	90 mm / 8,7 deg
Rudder	Servogear Effect Rudder VD 10332 AM
Classification	None

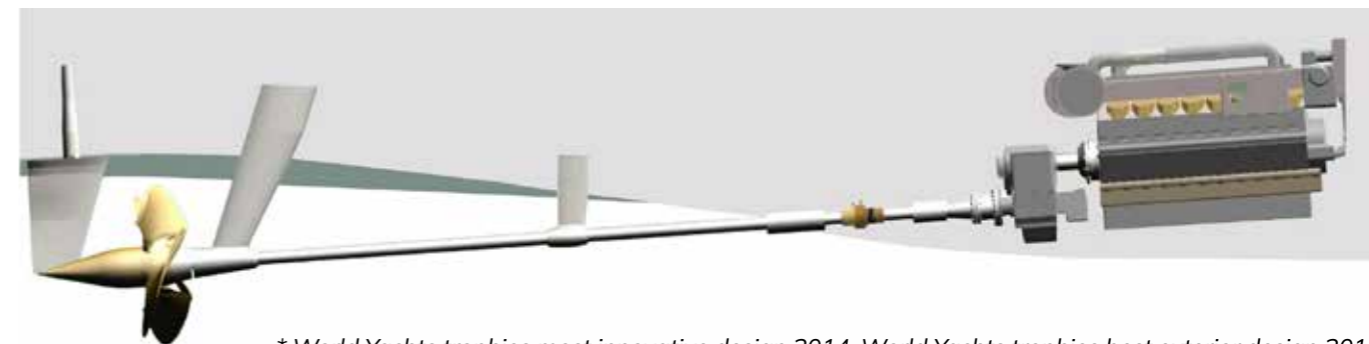
AWARD WINNING\*



## KHALILAH

2015

### PRINCIPLE ARRANGEMENT



\* World Yachts trophies most innovative design 2014, World Yachts trophies best exterior design 2014.

### MAIN PARTICULARS

Shipyard	Palmer Johnson
Hull Design	Ola Lilloe-Olsen
Length and Beam	48 m / 11 m
Material	Carbon Composite
Main Engines	2 x MTU 2000 M94
Vessel Speed MCR	28 knots (2 x 1939 kW @ 2450 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF 5350NR (5.04 : 1)
Propeller Arrangement	Dia: 1500 mm ~Ae/Ao: 0.75 (9P820)
Shaft Diameter/inclination	130 mm / 5.5 deg
Rudder	Servogear Effect Rudder 9R054
Classification	DNV



## WAYFINDER

2019

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Astilleros Armon
Hull Design	Incat Crowter
Length and Beam	68,2 m / 14,0 m
Material	Aluminium
Main Engines	MTU 16V4000M73L
Vessel Speed MCR	22,8 knots (2 x 2 832 kW @ 2050 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF 9355NR
Propeller Arrangement	Dia. 2 050mm ~Ae/Ao: 0,765 (9P840)
Shaft Diameter/inclination	160 mm / 4,5 deg
Rudder	Servogear Effect Rudder 9R108
Classification	LRS

AWARD WINNING\*



## HODOR

2018

### PRINCIPLE ARRANGEMENT



### MAIN PARTICULARS

Shipyard	Astilleros Armon
Hull Design	Incat Crowter Design
Length and Beam	66,2 m / 14 m
Material	Aluminium
Main Engines	2 x MTU 16V4000 M73L
Vessel speed MCR	23 knots (2 x 2 880 kW @ 2050 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	ZF9355 (5,185:1)
Arrangement	Dia: 2050 mm ~Ae/Ao: 0,765 (9P840)
Shaft Diameter/inclination	160 mm / 4 deg
Rudder	Servogear Effect Rudder 9R108
Classification	LRS

AWARD WINNING\*

YACHTS



## SAUDADE

2008

### PRINCIPLE ARRANGEMENT



\* Best sailing yacht over 45 m , World Superyacht Awards 2009.

### MAIN PARTICULARS

Shipyard	Wally Europe
Hull Design	Tripp Design
Length	45 m
Material	Carbon fibre reinforced sandwich
Main Engines	1 x Caterpillar C12
Vessel Speed MCR	14 knots (1 x 425 kW @ 2300 rpm)
Bollard	NA

### SERVOGEAR PROPULSOR

Gearbox	SERVOGEAR HD220H (2.952 : 1)
Propeller Arrangement	Dia: 1025 mm ~Ae/Ao: 0.675 (9P805)
Shaft Diameter/inclination	90 mm / 6.5 deg
Classification	RINA

AWARD WINNING\*

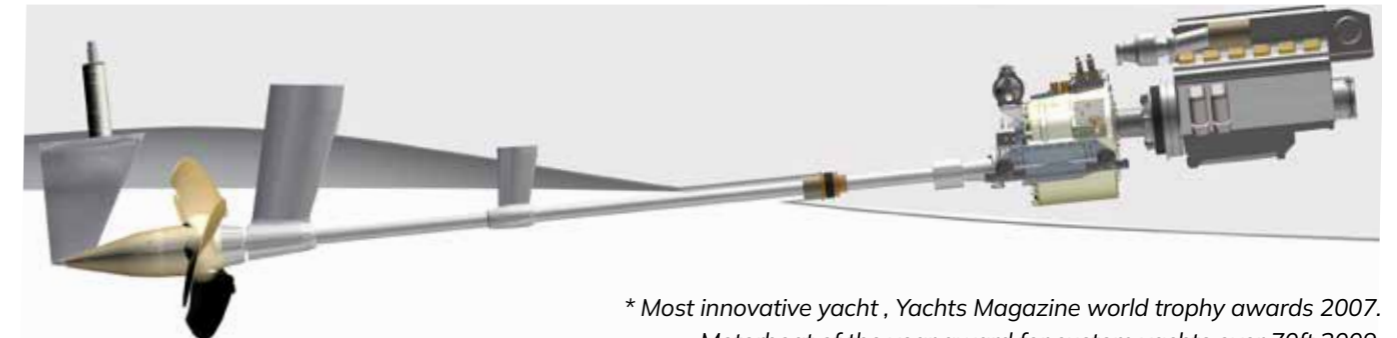
YACHTS



## NILO, ABUR

2007–2009

### PRINCIPLE ARRANGEMENT



\* Most innovative yacht , Yachts Magazine world trophy awards 2007.  
Motorboat of the year award for custom yachts over 70ft 2009.

### MAIN PARTICULARS

Shipyard	Moonen Shipyard
Hull Design	Stolk Marimecs
Length and Beam	30.10 m / 6.80 m
Material	Aluminium
Main Engines	2 x Caterpillar C32 Acert
Vessel Speed MCR	27 knots (2 x 1343 kW @ 2300 rpm)
Bollard	NA

### SERVOGEAR ECOFLOW PROPULSOR™

Gearbox	SERVOGEAR HD295H (3.3 : 1)
Propeller Arrangement	Dia: 1300 mm ~Ae/Ao: 0.75 (9P820)
Shaft Diameter/inclination	100 mm / 5.2 deg
Rudder	Servogear Effect Rudder 9R042
Classification	BV

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