RIM DRIVE TECHNOLOGY



2026

Reference portfolio

Electric propulsion systems for leisure, commercial and subsea applications.

Version 1.6
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Projects

Leisure boats 03

Ferries 10

Sailboats 14

USV / Autonomous vessels 18

Special projects 26


LEISURE





Sloop A-610

A typical Dutch sloop used by smaller groups. It's lightweight and quiet which makes it perfect for sailing in shallow waters.

Motor	POD 5.0
Length	6 meters
Weight	940kg
Battery capacity	20 kWh
Runtime	8 hours
Top speed	5.94 kts - 11km/h
Cruise speed	3.24 kts - 6km/h
Power at cruise	2kW



POD 5.0

Sloop A-780

This sloop is eight meters long which is perfect for larger groups. It's ideally used in the inland waterways of The Netherlands.

Motor	POD 11.0
Length	7.8 meters
Weight	1230kg
Battery capacity	20 kWh
Runtime	10 hours
Top speed	7.56 kts - 14km/h
Cruise speed	3.24 kts - 6km/h
Power at cruise	2.5kW



POD 11.0





Santos

Santos has developed a sustainable e-tender sloop for individuals and companies that value appearance, build quality, and performance as much as sustainability.

Motor	POD 5.0
Type	Sloop
Length	5.5 meters
Weight	540kg
Battery capacity	10 kWh
Runtime	8 hours



POD 5.0

Antaris 570

Our Dutch partner Vaartstroom transformed this classic into a modern electric boat. With a 11kW motor, it reaches the ideal balance between speed and efficiency for its size.

Motor	POD 11.0
Type	Sloop
Length	5.7 meters
Weight	1100kg
Width	2.3 meters



POD 11.0





Pinasse boat

This 14-meter Pinasse is a large-sized boat designed for longer distance trips. Powered by two 15kW motors, it delivers smooth performance and reliable operation.

Motor	POD 15.0
Length	14 meters
Weight	7500kg
Runtime	5 hours
Cruise speed	6 kts - 11km/h



(2x) POD 15.0

Hybrid solution

The POD motors are installed for cross maneuvering and for cruising at low speeds when the main engine is not needed.

Motor	POD 3.0
Length	6.5 meters
Battery	2x48V 60Ah
Runtime	8 hours



(2x) POD 3.0





Wooden boat

Beautiful classic wooden boat in Estonia. This boat is refitted with an electric rim drive motor.

Motor	POD 3.0
Length	5 meters
Weight	600kg
Runtime	5 hours



POD 3.0

Speed boat

Comfort and luxury combined, with ultimate maneuverability through a steerable pod. Ideal for medium speed applications.

Motor	Steerable POD 11.0
Length	7 meters
Weight	960kg
Battery capacity	28kWh
Run time	4 hours
Top speed	15 kts - 28km/h
Cruise speed	5 kts - 9km/h
Power at cruise	7.5kW



Steerable POD 11.0





Free power

This electric boat gets its energy from the sun.
The autonomous electrical system takes care of the charging on its own.

Motor	Steerable POD 11.0
Length	7.1 meters
Weight	1100kg
Battery capacity	18kWh
Top speed	7 kts - 13km/h
Cruise speed	4 kts - 7.5km/h



Steerable POD 11.0

Yacht

A 15kW twin installation for heavy boats. This motor always ensures enough power.

Motor	Entry Level Outboard 15.0
Length	12 meters
Weight	7000kg
Battery capacity	60kWh
Run time	7 hours
Top speed	5.4 kts - 10km/h
Cruise speed	4.32 kts - 8km/h
Power at cruise	2x 3,7kW



(2x) EL Outboard 15.0





AM CAT

A 6m-long monolithic catamaran for open waters was 3D-printed using robotic additive manufacturing in a recent engineering collaboration.

Motor	Steerable POD 11.0
Length	6 meters
Weight	1100kg
Battery capacity	40kWh
Top speed	6.3 kts - 11.6km/h*
Power input	10.3kW

*Based on 10kW input power and 3 people on board



Steerable POD 11.0

Seiwa

This electric pleasure craft is designed for sustainable and quiet recreation on the water. It operates with an electric POD 15.0kW, producing zero emissions and minimal noise.

Motor	POD 15.0
Length	8 meters
Width	2.5 meters
Displacement weight	3266kg
Top speed	6.5 kts - 12km/h



POD 15.0





Fluuster

This 10-metre boat runs on our Entry Level Steerable POD 11.0 kW. The boat is silent, electric and wheelchair accessible, and it will take people with disabilities out on the Maas.

Motor	Entry Level Steerable POD 11.0
Type	Pontoon boat
Length	10 meters
Top speed	12km/h
Battery package	2x 266Ah



Entry Level Steerable POD 11.0kW



FERRIES





Canal cruise boat

A fully electric electric boat from 1997, the first in the Netherlands! This boat can accommodate 48 passengers.

Motor	Entry Level Outboard 11.0
Length	13 meters
Weight (full capacity)	14000kg
Top speed	6 kts - 11km/h
Battery pack	900A 48V pack



(2x) EL Outboard 11.0

Autonomous ferry

This company aims to help cities solve pollution and congestion problems by deploying networks of zero emission electric, autonomous ferries.

Motor	Steerable POD 50.0
Length	Approx. 15 meters
Weight	13.000kg
Runtime	15 hours
Top speed	9 kts - 17km/h (2x36kW)
Cruise speed	6 kts - 11km/h
Power at cruise	15kW



(2x) Steerable POD 50.0





Whisper boat

These environmentally friendly boats are easy to steer and maneuver. This also makes them the ideal means of transport for the sometimes narrow canals of Giethoorn.

Motor	Entry Level Outboard 11.0
Length	11 meters
Cruise speed	7.5 kts - 13.89km/h
Top speed	6 kts - 11km/h
Power at cruise	8kW



EL Outboard 11.0

Tour boat

A 32 pax vessel for shallow waters powered by two 11kW Entry Level outboard engines. A great twin install project!

Motor	Entry Level Outboard 11.0
Length	11 meters
Weight	3500kg
Battery capacity	40kWh
Runtime	5 hours
Top speed	6.5 kts - 12km/h
Power at cruise	2.6kW



(2x) EL Outboard 11.0



Ferry

To transport people from location A to B. Equipped with 24V bow and stern thrusters for ultimate maneuverability.

Motor	Bow thruster 4.2
Type	Ferry
Length	10.5 meters
Bow thruster	(1x) Bow thruster 4.2
Stern thruster	(2x) Stern thruster 3.0
Weight	7700kg
Main engine	Diesel



Bow thruster 4.2



SAILBOATS







Toucan-Class sailboat

This sailboat is made with mahogany wood and in combination with the rim drive motor this means smooth sailing. When driving slowly, the thrust is very easy to control precisely.

Motor	POD 5.0
Length	10.6 meters
Weight	2000kg
Cruise speed	3.5 kts - 6.5km/h
Power at cruise	1.5kW



POD 5.0

30er Schärenkreuzer

The 30er Schärenkreuzer is a typer of sailing boat with a sail area typical for its class. It is equipped with an 8.0kW POD motor for maneauvering in and out the harbor.

Motor	POD 8.0
Length	11.8 meters
Width	2 meters
Depth	1.4 meters
Weight	≈3600kg



POD 8.0







Toucan-Class sailboat

This gaff-rigged sailboat with its traditional wooden spar is now equipped with a 3 kW electric POD motor, offering quiet and efficient propulsion while preserving its timeless character.

Motor	POD 3.0
Length	5.25 meters
Max.beam	1.94 meters
Displacement	1300kg
Top speed	5 kts - 9.2km/h



POD 3.0

45er Nationale Kreuzer

The 45 National Cruiser is a type of sailing boat with a sail area of 45 m². The 5kW POD is used for sailing in and out of the harbor.

Motor	POD 5.0
Length	10 meters
Weight	3000kg
Top speed	5.4 kts - 10km/h
Cruise speed	4.5 kts - 8.3km/h
Power at cruise	2.5kW



POD 5.0





Psaros sailboat

A Psaros sailboat is a modern, high-performance sailing yacht known for its sleek design and exceptional craftsmanship. This particular model is equipped with our 8kW motor, delivering reliable and efficient power when needed.

Motor	POD 8.0
Length	14 meters
Displacement	2000kg



POD 8.0



USV/ASV





Berlin

This project uses Berlin's unused waterways for transport and waste collection with small, partly autonomous boats. It can operate unmanned or with crew on board.

Motor	POD 5 & POD 25.0
Length	14 meters
Weight	12.000kg
Width	6.06 meters
Battery capacity	40kWh at 48V 320kWh at 96V
Speed	12 km/h at a power output of 2x4.5kW output



(2x) POD 25.0
(2x) POD 5.0

USV

The aim of this USV was to develop a transport and are powered by electric propulsion with zero local emissions.

Motor	POD 5.0
Length	6 meters
Weight	1500kg
Automatic tracking	Lateral direction
Cruise speed	Medium speed



(2x) POD 5.0





MegaShark

The MegaShark is a USV designed for targeted waste removal in tight or hard-to-reach areas. It can operate autonomously or with a person on board.

Motor	POD 5
Length hull	4.25 meters
Width hull	2.25 meters
Material hull	Aluminum
Max. operating time	8 hours
Top speed	7.5 kts - 14 km/h



(2x) POD 5.0

Trator Do Mar

The Portuguese Navy has unveiled a new unmanned surface vehicle (USV) dubbed Trator Do Mar, at NATO's Exercise 'REPMUS 24'.

Motor	POD 11.0
Type	USV
Data collector	Subterranean
Cruise speed	Medium speed



(2x) POD 11.0





USV

The drix O-16 USV is used for full ocean depth scientific and hydrographic surveys, geophysical and UXO surveys, and subsea infrastructure inspections.

Motor	Bow thruster 11.0
Length	15.75 meters
Weight	10.000kg
Main engine	Diesel
Data collector	Subterranean



(1x) Bow thruster 11.0

USV

This USV is specialised in advanced autonomous technologies and solutions for various maritime applications.

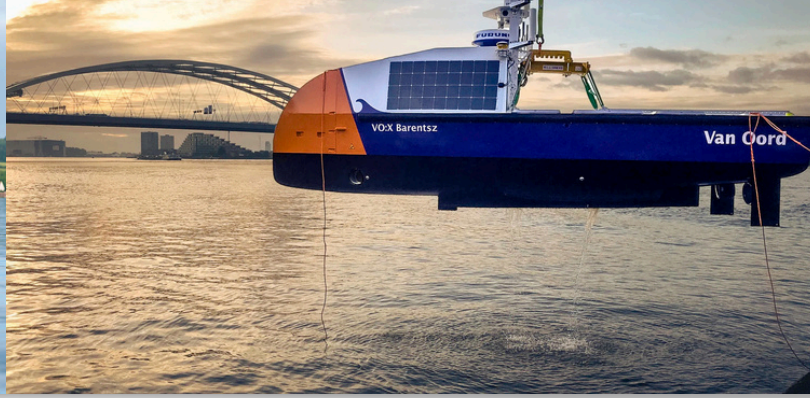
Motor	POD 5.0
Type	USV
Data collector	Subterranean



POD 5.0







USV

USV for survey and environmental monitoring that are zero-emission and non-invasive.

Motor	Entry Level Outboard 5.0
Length	4.7 meters
Width	2.23 meters
Displacement	1010kg
Max. speed	6 kts - 11km/h



(2x) EL Outboard 5.0

USV

This USV can be used to support dredging operations, offshore wind farm installation and marine infrastructure construction.

Motor	POD 15.0
Length	7 meters
Range	1200nm
Support	Offshore



(2x) POD 15.0
Bow thruster 15.0





USV

This unmanned surface vessel can be remotely operated from the mainland with ease. Designed for efficient and flexible deployment it offers precise control.

Motor	POD 11.0 & Bow thruster 5.0
Length	3 meters
Weight	350kg
Payload	170kg
Runtime	15 hours
Top speed	8.0 kts - 15km/h
Cruise speed	2.7 kts - 5km/h



(2x) POD 11.0
Bow thruster 5.0

USV

This versatile USV is designed for offshore and coastel operations.

Motor	Steerable POD 5.0
Length	4.8 meters
Width	1.8 meters
Top speed	5.4 kts - 10 km/h



(2x) Steerable POD 5.0





USV

This USV is built for autonomous waste collection at sea and along the coast. It gathers debris, transfers it to a storage bay on board, and returns to shore to unload.

Motor	Steerable POD 3.0
Length	5 meters
Width	2.2 meters
Weight	330kg with 350kg payload
Maximum speed	7 kts - 13km/h
Nom. operating time	Approx. 10 hours at 2 knots operating speed



(2x) Steerable POD 3.0

USV

Students from the University School of Design and Engineering of Barcelona have successfully prototyped a USV boat.

Motor	Outboard 5.0
Length	2.6 meters
Weight	180kg
Battery capacity	48V 60Ah
Runtime	8 hours
Top speed*	30 kts - 55km/h
Cruise speed	13 kts - 25km/h

*Top speed is based on the calculations of the students



Outboard 5.0





USV

USV for subterranean soil research.

Motor	Steerable POD 11.0
Length	3 meters
Weight	1000kg
Cruise speed	4.0 kts - 7.4km/h



(2x) Steerable POD 11.0

USV

This USV is used for research purposes to collect data.

Motor	Entry Level Outboard 5.0
Hull dimensions	6m * 6m
Weight	2500kg
Cruise speed	4.0 kts - 7.4km/h



(2x) EL Outboard 5.0



SPECIAL





Houseboat

This houseboat is equipped with 2 × 15 kW steerable POD motors, providing excellent maneuverability and reliable performance on the water.

Motor	Steerable outboard 15.0
Length	15 meters
Weight	21.000kg



(2x) Steerable POD 15.0

Houseboat

This houseboat is powered by a 8 kW steerable POD motors, delivering excellent maneuverability, and dependable performance on the water. In addition, it is equipped with a 5 kW bow thruster and a Dynamic Positioning system, ensuring precise station-keeping and effortless control.

Motor	Steerable outboard 8.0
Length	9 meters
Top speed	3.5 kts - 6.5km/h
Control options	Holding position, heading mode, precise docking and autonomous positioning.



Steerable POD 8.0
Bow thruster 5.0







Submersible

We've installed dual 11.0kW POD electric motors in a submarine, advancing our eco-friendly commitment for cleaner, quieter marine transportation.

Motor	POD 11.0-S
Length	8 meters



(2x) POD-S 11.0

Aluminium Catamaran

Private home project.

Motor	POD 15.0 & standard bow thruster 5.0
Length	9.5 meters
Weight	5000kg
Cruise speed	7.2 kts - 13km/h



(2x) POD 15.0
Standard bow thruster 5.0

NV1 - Electric Hydrofoil

ENVGO NV1 Founders Edition combines aerospace-grade engineering, AI-native controls, and advanced hydrofoiling to reimagine marine mobility. The stern thruster weighs only 5 kg, contributing minimally to overall vessel mass.

Our electric rim drive motor eliminates the central shaft and gearbox, significantly reducing underwater noise.

Passengers	6
Length	7.6 meters
Beam	2.6 meters
Control options	Holding position, spinning in place, precise docking and autonomous positioning.



Stern thruster 5.0





RIM DRIVE TECHNOLOGY

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