

# MY URSUS MOTORYACHT

## CASE STUDY

SHIPYARD:	Balk Shipyard
DESIGNER:	Mulder Design
LENGTH:	30.38 m
BOW THRUSTER:	Veth VT-50
AZIMUTH THRUSTERS:	Two Veth VL-250si-CR



### SITUATION

The MY Ursus project aimed to transform an existing 24-meter yacht into a modernized 30.38-meter vessel with improved stability, comfort and performance. The design evolved after expert advice to extend both the bow and stern, improving course stability and giving the yacht a contemporary profile. The updated exterior and layout were developed by Mulder Design, whose work defined the yacht's new proportions and refined appearance.



This transformation increased the yacht's length and enabled extensive modernization of its systems and layout. Veth Propulsion provided a compact thruster solution that integrated seamlessly beneath the beach deck, perfectly complementing the yacht's new configuration.

PARTNER WITH THE CUSTOMER  
TO MODERNIZE YACHT

### CHALLENGE

The challenge was to integrate the thrusters into a yacht undergoing significant modifications. With the vessel being lengthened and modernized, the propulsion system design had to evolve in step with these changes.



Working closely with Balk Shipyard, we carefully coordinated the placement of the thrusters and bow thruster within the new layout, ensuring perfect alignment with the redesigned hull and repositioned engine room. This project also marked one of the first times we developed a smaller ELITE™ Series thruster, giving us the opportunity to adapt it to the same high standards as our larger models.

To achieve this, we refined the design with 3D-printed flow parts, bringing the VL-250si-CR up to the latest ELITE specifications for optimal hydrodynamic efficiency. The thrusters were also fitted with specially developed Rolla Class S propellers, featuring six and seven blades, a choice aimed at minimizing noise and vibration while delivering the highest level of onboard comfort.

Throughout the process, timing and installation stayed aligned with the shipyard's schedule. Close collaboration ensured every technical and design detail came together smoothly to deliver the best possible result.

REFINE EXISTING ELITE SERIES THRUSTER  
FOR OPTIMAL HYDRODYNAMIC EFFICIENCY

### SOLUTION

For MY Ursus, Veth Propulsion supplied two ELITE Series thrusters, type VL-250si-CR. The "CR" denotes contra-rotating propellers, which significantly reduced noise and vibrations, while "si" stands for semi-integrated, ensuring the thrusters fit compactly within the yacht's design without compromising valuable deck space.



To enhance maneuverability and further minimize noise, a Veth Tunnel Thruster (type VT-50) with a noise optimized propeller design was also installed. The yacht was also equipped with four control stations: a main station on the bridge, two wing stations, and a unique flybridge station, developed as a second full master station. These stations were linked with electronically synchronized levers, allowing seamless transfer of control between positions.

Additionally, the thrusters were modified to fit within the existing foundations, thereby minimizing structural changes required by the shipyard. This flexibility, combined with advanced noise reduction, delivered a propulsion system that was compact, quiet, and highly efficient.

TWO ELITE SERIES THRUSTERS AND  
A TUNNEL THRUSTER DELIVER QUIET,  
HIGHLY EFFICIENT PERFORMANCE





Working with Veth Propulsion gave us the feeling we were in capable hands from the very beginning. Their open communication, professionalism and willingness to work closely with us to find the best solution made a strong impression throughout the project. The installation and commissioning went smoothly, and any minor issues were resolved quickly and efficiently. Combined with excellent support and on-board training, choosing Veth Propulsion proved to be the right decision for us.



*Captain, MY Ursus 2*

## RESULT

The refit of MY Ursus delivered a yacht that was significantly enhanced in both performance and onboard experience. By supplying the thrusters as a partial delivery, installation was streamlined and overall lead time improved.



The new propulsion setup achieved maximum output while utilizing the existing power plant and frequency drives, resulting in better fuel efficiency. Noise and vibration were significantly reduced thanks to the ELITE thrusters, the silent tunnel thruster and Rolla propellers.

At the same time, two fully independent propulsion systems and four integrated control stations provided enhanced safety and precise maneuverability. Programmable controls enabled the captain to tailor the system to their personal preferences, contributing to greater comfort, increased range, improved handling, and lower operational costs. Both the owner and captain shared highly positive feedback, highlighting the intuitive feel and design of the controls, the ability to train on their own yacht after launch, and the opportunity to visit the factory and be part of the entire process.

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### VETH ELITE™ SERIES



ELITE is a versatile propulsion solution, carefully tailored to the specific requirements of each yacht. It delivers:

- Ultra-low noise levels and reduced vibrations for enhanced onboard comfort
- High propulsion efficiency
- A compact design that provides greater flexibility in vessel layout
- 360° full thrust, ensuring optimal maneuverability and control

### VETH TUNNEL THRUSTERS



Veth tunnel thrusters ensure unparalleled maneuverability and control in any situation. Features include:

- Optimum propeller design
- Requires minimal maintenance
- No reverse clutch is required due to electrical E-drive

