

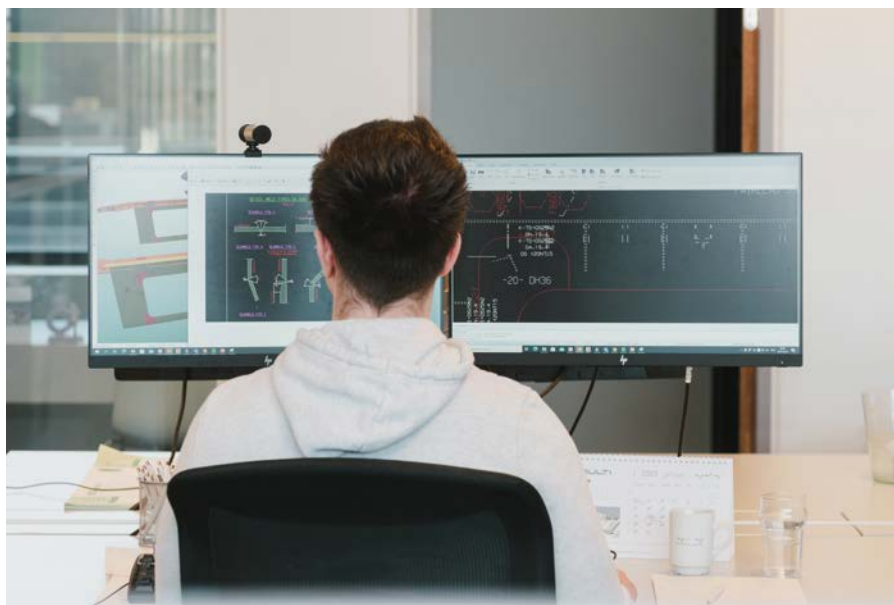


MULTI
.engineering

**Navigating Your World,
from Oceans to Rivers**



**Engineering Excellence
for Maritime & Offshore**



Spanning over 25 years, MULTI.engineering has charted a course of expertise through the diverse realms of maritime and offshore markets. As a family-owned business, MULTI.engineering integrates strong familial values and dedication into its operations, ensuring personalized and committed service to clients. This unique blend of professional excellence and family-oriented principles has enabled the company to build lasting relationships and a solid reputation in the industry.

Each client query is distinct and demands a tailored approach. Therefore, our flexible service model is designed to adapt to your unique needs. We leverage the expertise of our expert engineers in three innovative ways, always aligning the perfect skill set with your specific challenge.

Services

Customizing Excellence: Our Triple-Expert Engineering Approach



MULTI.engineering conducts design and engineering projects from our offices located at the heart of the maritime industry. Our professionals focus on developing efficient and sustainable solutions for maritime and offshore players. With expertise in vessel design and complex engineering, they play a crucial role in supporting the innovative projects our clients undertake.

MULTI.engineering dispatches our project experts to work onsite at client premises, ensuring the continuity and highest quality of support for your projects at every stage. Our service team oversees a comprehensive pool of professionals specializing in design, engineering, project management and supervision for maritime and offshore projects.

With a well-known commitment to maritime tradition, Fleet Support Services employs its hands, brains, and digital tools to assist in ship construction, docking, refits and conversions, as well as the repair and operation of maritime equipment. This department specializes in the implementation and operation of new energy systems and equipment.

Markets



Dredging

Located in the world's dredging hotspot for over 25 years, we provide dredging companies with comprehensive, yard-independent engineering packages. Varying from complete designs for trailing suction hopper dredgers (TSHD), water injection dredgers (WID) to split barges and spreader pontoons.



Offshore

With our deep understanding of what is required to produce, store, transport and offload both traditional and renewable energy in specific offshore conditions, we partner with our clients to co-build innovative solutions that make energy accessible to all. Our involvement in engineering varies from jackup vessels, cable layers and rock dumping vessels to a broad range of support vessels for offshore installations.



Yachting

With extensive experience in maritime and offshore design & engineering, and specialized knowledge in yachting, we offer the yachting sector tailored, high-quality solutions that cater to their discerning clients' specific needs. More specifically, we deliver full production packages for large yachts as well as feasibility studies for conversion/refits and the related class and production packages.



L'Ostrea

- Water injection Dredger
- Concept and tender assistance
- Naval architecture design
- Structural design



Yellowstone

- Largest Fall Pipe vessel
- Concept design of conversion
- Basic engineering package
- Production Package
- On-site coordination during conversion at yard



Oceanco

- +80 yacht projects, ranging length from 50m to 130m
- Oceanco Co-maker
- Engineering hours/project: up to 100.000



Commercial & workboats

Thanks to our diverse customer base across various segments, we can support shipowners and shipyards with all types of merchant vessels. Our expertise ranges from general cargo ships like bulk carriers and container vessels to specialized vessels such as livestock carriers and LNG tankers. Additionally, many of our engineers have experience in the inland and seagoing towing sectors, providing us with specific knowledge on the design and operation of these vessels.



Leisure

Leveraging our vast expertise in shipbuilding and yacht construction, MULTI.engineering efficiently provides clients with robust support in the design and engineering of a variety of passenger and ocean expedition cruise vessels. We deliver a broad array of services varying from full engineering services from concept to production for river cruisers, ocean expedition vessels, floating hotels and ferries.



Naval

MULTI.engineering has conducted numerous engineering studies for prestigious military projects across the Belgian, Dutch, and Moroccan navies. We have been working directly with military authorities or as a subcontractor to premier naval shipbuilders. This demonstrates our flexibility in navigating the complexities of military engineering with precision, excellence and discretion.



Union Panda

- Tugboat conversion to meet IMO Tier III standards
- CAPEX saving due to optimized project approach
- 3D scanning
- Basic and Detail engineering



Catamaran & Ferry

- Renewal of the Lake Balaton passenger ships
- Concept design
- Basic engineering package
- Production Package



Dutch Navy

- Basic & detail engineering support for CSS "Karel Doorman"
- Various ILS projects for newbuilding frigates, support vessels, ...



Discover more sensational projects

Innovation

MULTI.engineering is committed to contributing to the sustainable development of products and has made R&D a cornerstone of our long-term strategy. Each year, we aim to expand our involvement in research, development, and innovation. We are continually seeking partnerships to foster collaboration and discover new opportunities that accelerate innovation.

Energy transition

At MULTI.engineering, we offer comprehensive support for the energy transition in the maritime industry. Our services encompass everything from initial feasibility studies and concept development to basic engineering and obtaining necessary approvals. We are actively involved in safety assessments, including HAZID and HAZOP studies, and provide ongoing on-site support and coordination. This reflects our dedication to delivering sustainable and innovative engineering solutions that contribute to a greener maritime industry.

Digital twins

MULTI.engineering is laying the groundwork for integrated Fleet Support Services based on vessels' digital twins. These virtual models will be deployed in guiding the various stakeholders, from training the crew to helping ship owners and investors understand the impact of their choices on which systems and technologies to integrate into their vessels. It helps underwriters to analyse accidents, fleet managers to find root causes and improve processes, and cargo owners to reduce the carbon footprint of their products.

Moray Base

The 15 MW floating foundation has been awarded an Approval in Principle (AiP). This innovative solution is suitable for highly automated large-scale production. It also features a system for collecting plastic waste in rivers and waterways. Incorporating novel technologies, it supports sustainable energy provision, hydrodynamic modeling, plastic behavior modeling in water, inline monitoring, low-flow tidal turbines, and a 3D digital twin model. This initiative is spearheaded by the DeMARC consortium.



Structural glass in superyachts

The volume of glass in yachts is continuously increasing. However, glass is generally not considered a structural component in a yacht, unlike materials such as aluminum or steel. With the support of MULTI.engineering, Danie Wium is working on his doctoral thesis (UGent) about glass as a structural component in yachts. The aim is to develop guidelines for shipbuilders to integrate glass as a structural element in yacht construction.

MARC - MARine River Cleaner

MULTI.engineering, IMDC, Fraunhofer, Schottel & Soliton join forces to clean up plastic waste at river mouths, coastal communities and ports.

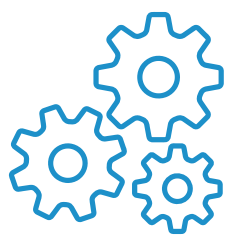
MARC is a plastic catcher with adaptive design allowing for optimization for each location via digital twin simulations. During operation, the system runs on renewable energy and the catching efficiency is monitored. This makes MARC the first sustainable plastics catcher with specified and proven efficiency. The MARC will be developed to allow for a safe, efficient and cost effective operation using novel technologies.



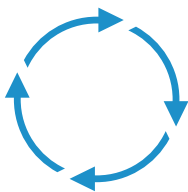


The engineers and designers at MULTI. engineering have the necessary expertise and skills. They take responsibility for their work and are willing to share their knowledge."

- Oceanco



300+
projects



€32M
Annual turnover

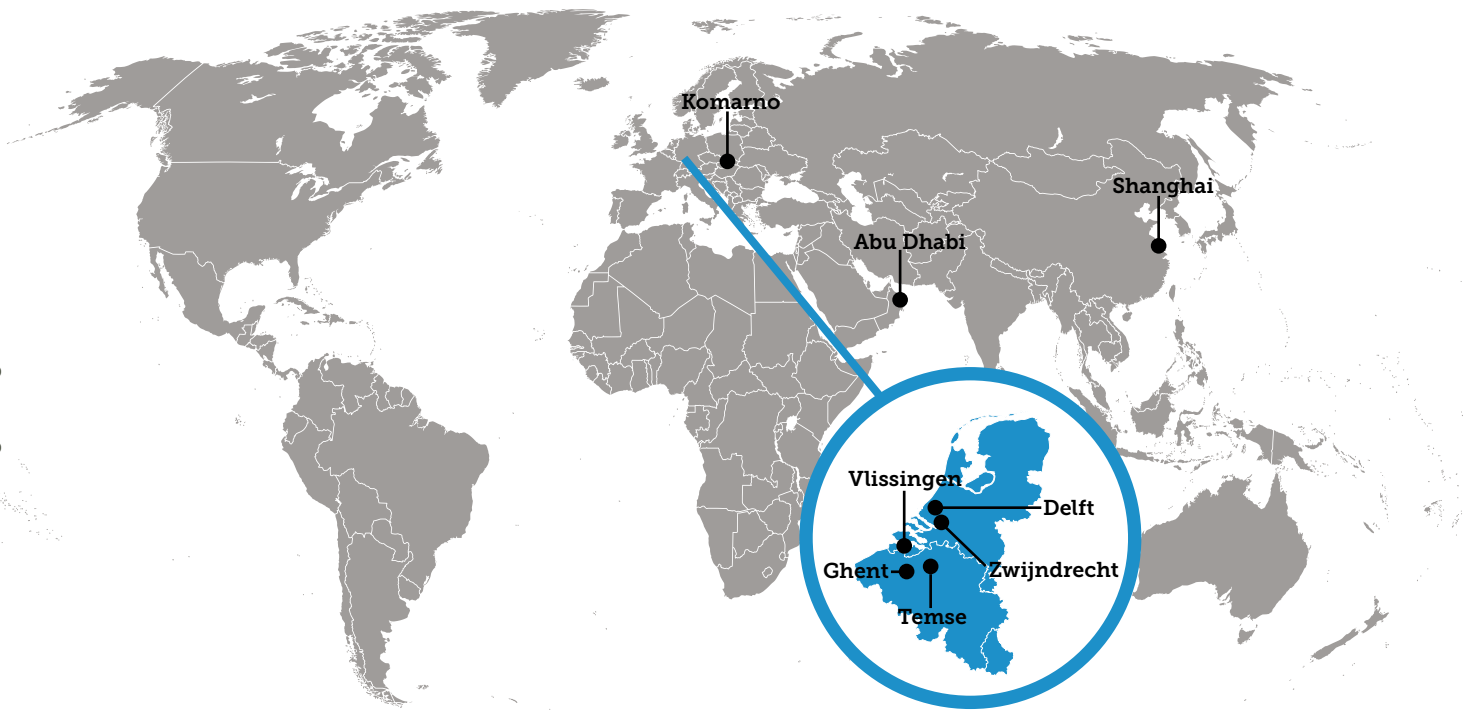


300
Experts



15.000
R&D hours

24
Nationalities



NO ENGINEERS, NO FUTURE !



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