Everllence

Four-stroke marine systems

OSV and workboat

Highly reliable engine solutions

Moving big things to zer

Everllence is the world's leading provider of large-bore engines, turbomachinery, and integrated power systems. 250 years of experience in advanced engineering has prepared us well for our biggest challenge yet: to provide the technical solutions that will drive the global economy into a new carbon-neutral era.

The industries we serve are crucial for the world economy. Most of them are also hard to decarbonize. By providing sustainable solutions for marine transport, power generation, and industrial engineering we boost business and help to bring the world to net zero.

Many years of experience ensure that our innovative marine engines and systems are always ideally suited to your business operations, both offshore and in harbors.

Focused on your business

Reliability in the face of new challenges
The demand for energy continues to grow but it is also changing: the world is looking for clean, renewable energy and the oil & gas industry is making its operations cleaner and more environmentally friendly.

When the large ships that transport and consume this fuel come into port, they need more powerful tugs. New opportunities are arising for offshore and harbor operators to increase their profits.

Offshore vessels require highly reliable and efficient propulsion systems that easily adapt to heavy seas, harsh environments, and low-load operation during dynamic positioning. In terms of emissions, the target is net zero.

Engines that keep your business running
Our engines are reliable, compact, safe, and designed for simple operation and easy maintenance. They are made to keep your business running smoothly, with a long TBO (time between overhauls), and can operate on future fuels with the aim of net zero emissions.

Four-stroke engines for OSV and workboats

AHT / AHTS

L27/38	2,040 – 3,285 kW
175D	1,740 – 4,400 kW
L32/44CR	3,600 – 6,000 kW

PSV

L21/31	1,290 – 1,935 kW
L21/31 Mk2 GenSet	1,000 – 1,980 kW
L27/38 GenSet	1,500 – 3,150 kW
L27/38	2,040 – 3,285 kW
175D GenSet	1,440 – 3,800 kW
175D	1,740 – 4,400 kW

OCV / WIV

175D GenSet	1,440 – 3,800 kW
L32/44CR GenSet	3,600 – 6,000 kW
V32/44CR GenSet	7,200 – 12,000 kW

Tugs

L27/28	2,040 – 3,285 kW
175D	1,740 – 4,400 kW

Offshore wind vessels

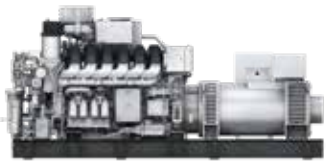
L21/31 Mk2 GenSet	1,000 – 1,980 kW
L27/38 GenSet	1,500 – 3,150 kW
L27/38	2,040 – 3,285 kW
175D GenSet	1,440 – 3,800 kW
175D	1,740 – 4,400 kW
L32/44CR GenSet	3,600 – 6,000 kW
V32/44CR	7,200 – 12,000 kW

21/31 Mk2
GenSet

1,000 – 1,980 kW

27/38
GenSet

1,500 – 3,150 kW



175D
GenSet

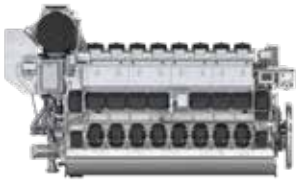
1,440 – 3,800 kW

27/38
Propulsion

2,100 – 3,060 kW

175D
Propulsion

1,740 – 4,400 kW



32/44CR
Propulsion

3,600 – 6,000 kW

32/44CR
GenSet

3,600 – 6,000 kW
7,200 – 12,000 kW

AHT / AHTS

Anchor handling tugs (AHT) and anchor handling tug supply vessels (AHTS) take on demanding tasks such as high-power towing, supply runs to offshore rigs, and emergency rescue. Every mission requires absolute reliability.

Ready for the challenge

Flexible performers

These vessels need powerful propulsion during transit, reduced output for dynamic positioning, and instant power when needed. Low fuel consumption is critical for operators focused on environmental performance and cost efficiency.

With options for large crew accommodation, heavy winch loads and subsea capability, our engines provide the flexibility and compliance needed for modern AHT and AHTS operations.

27/38 GenSet and propulsion

Good for business

Heavy-duty propulsion and maneuvering power are the core of the L27/38's performance characteristics. This solid and reliable engine delivers good performance over the entire load range with quick acceleration and immediate load response.

The proven reliability of this engine ensures long times between overhauls and no unscheduled maintenance or repair work. Additional economic benefits are derived from its low fuel and lube oil consumption – while fulfilling legal emission limits. Noise and vibration levels are also reduced, providing comfort to the crew.

Benefits

Reliability in operation
Solid and compact design

Long periods between overhauls
32,000 hours

Low fuel and lube oil consumption
Thanks to efficient fuel injection

Propulsion package

The L27/38 is available as part of an integrated package including reduction gearbox, shaft line, propeller, and control system. This has notable advantages for both ship builders and operators with excellent results in terms of operating economy, reliability, durability, and predictable service intervals.

Power take-off (PTO)
100 % PTO is possible from either end of the engine and additionally a small 50 kW PTO is optionally available on the front-end box for driving a seawater pump or similar.

Jet assist
This device supports rapid acceleration in partial-load operation. Compressed air is blown onto the compressor wheel of the turbocharger. The charge air pressure is increased and the maneuvering characteristics are improved.

PSV

PSVs (Platform Supply Vessels) transport cargo and crew to offshore platforms and are often adapted for tasks like subsea surveys, pipe laying, or repair work.

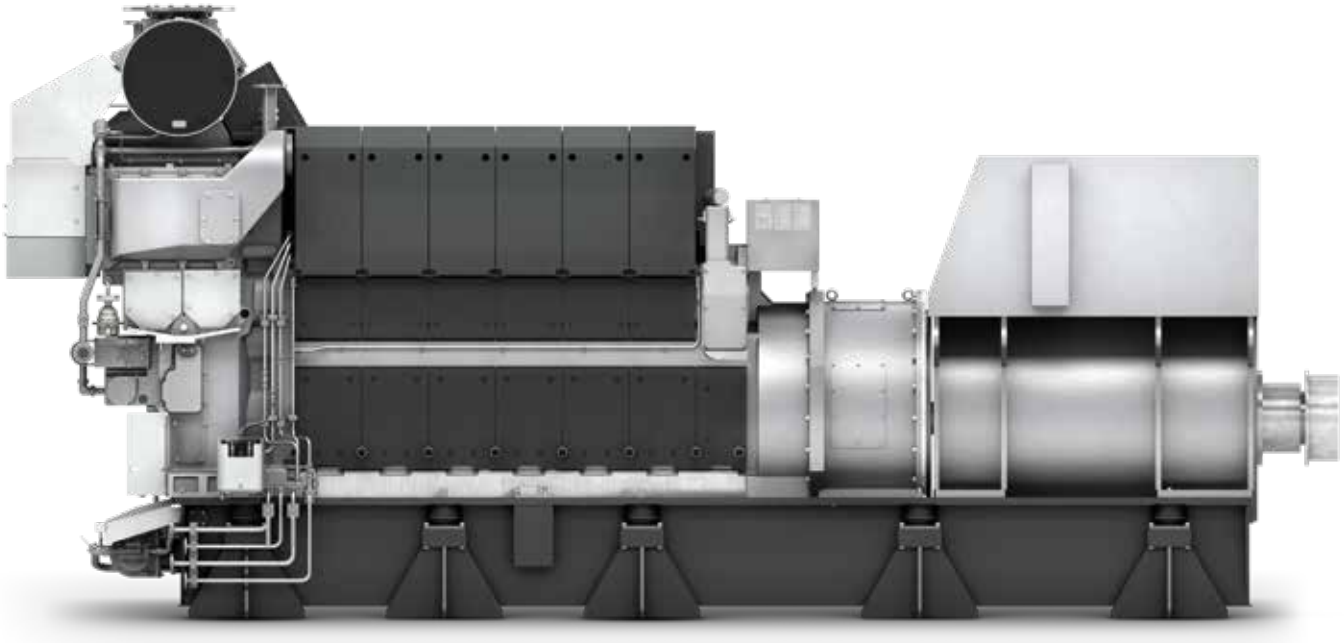
Reliability in challenging conditions

The need for exceptional load response

PSVs require fast and reliable load response whether holding position near a rig at low load or operating at full power during transit. In Arctic missions, engines must also perform in extreme cold. Operators rely on long service intervals, low fuel consumption and proven durability to ensure uptime and return on investment. Our engines meet these demands with confidence.

L21/31 GenSet and propulsion

Reliable and user-friendly operation



Many years of experience with the propulsion concept, together with customers' requirements for reliability, economy, and technical progress, have resulted in this engine. The L21/31 engine is the ideal power source for small to medium-sized tankers, cargo vessels, ferries, RoRo vessels, large fishing vessels, tugs, workboats, and supply vessels.

Benefits

Convenient power take-off (PTO)
100 % PTO is possible from either end of the engine

Clean engine design
The front-end box incorporates cooling water pumps, thermostatic valves, oil pump, cooler and filter

Very short installation length
The standby pump connection is at the side of the engine

Propulsion package

The L21/31 is available as part of an integrated package including reduction gearbox, shaft line, propeller, and control system. This has notable advantages for both ship builders and operators with excellent results in terms of operating economy, reliability, durability, and predictable service intervals.

Power take-off (PTO)
100 % PTO is possible from either end of the engine.

Jet assist
This device supports rapid acceleration in partial-load operation. Compressed air is blown onto the compressor wheel of the turbocharger. The charge air pressure is increased and the maneuvering characteristics are improved.

Offshore wind vessels

As offshore windfarms grow in size and reach, the industry demands modern, efficient vessels designed for larger turbines, harsher environments, and sustainable operations.

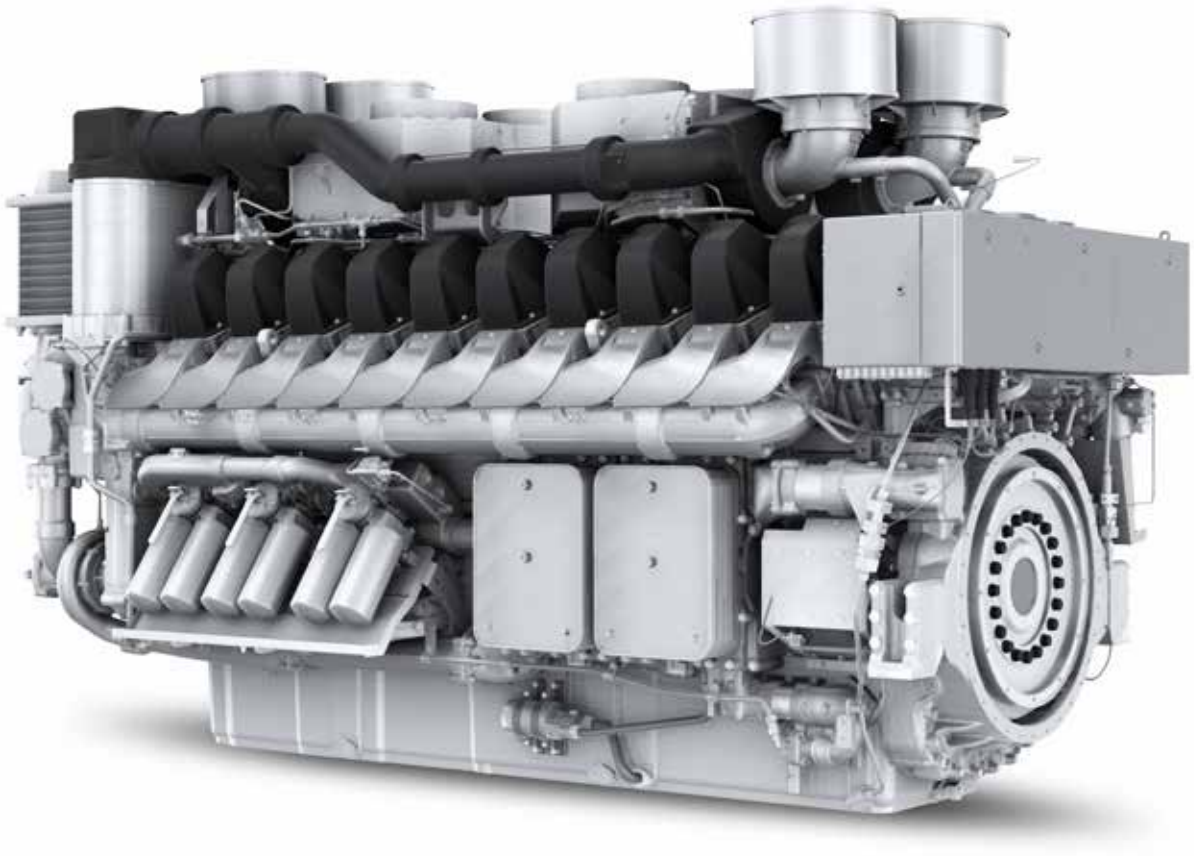
Vital for the energy transition

Reliable, clean, and highly efficient

Offshore wind vessels must transport, install, and service turbines reliably under challenging sea conditions. To support the sector's push toward carbon neutrality, these ships need engines that deliver dependable performance, low emissions, and outstanding efficiency. Our engines are built to meet these expectations without compromise.

175D GenSet and propulsion

Dynamic and cost-effective



Designed for extreme robustness, first-rate reliability, and maximum efficiency, the 175D offers not only high speed but also a rapid return on investment. This powerful and compact engine provides outstanding SFOC and long TBO.

Benefits

Advanced and robust
Cutting-edge technology based on many years of experience

Economical in many ways
Low OPEX and life-cycle costs

Methanol-ready
Engine design allows for retrofitting to operate on green methanol

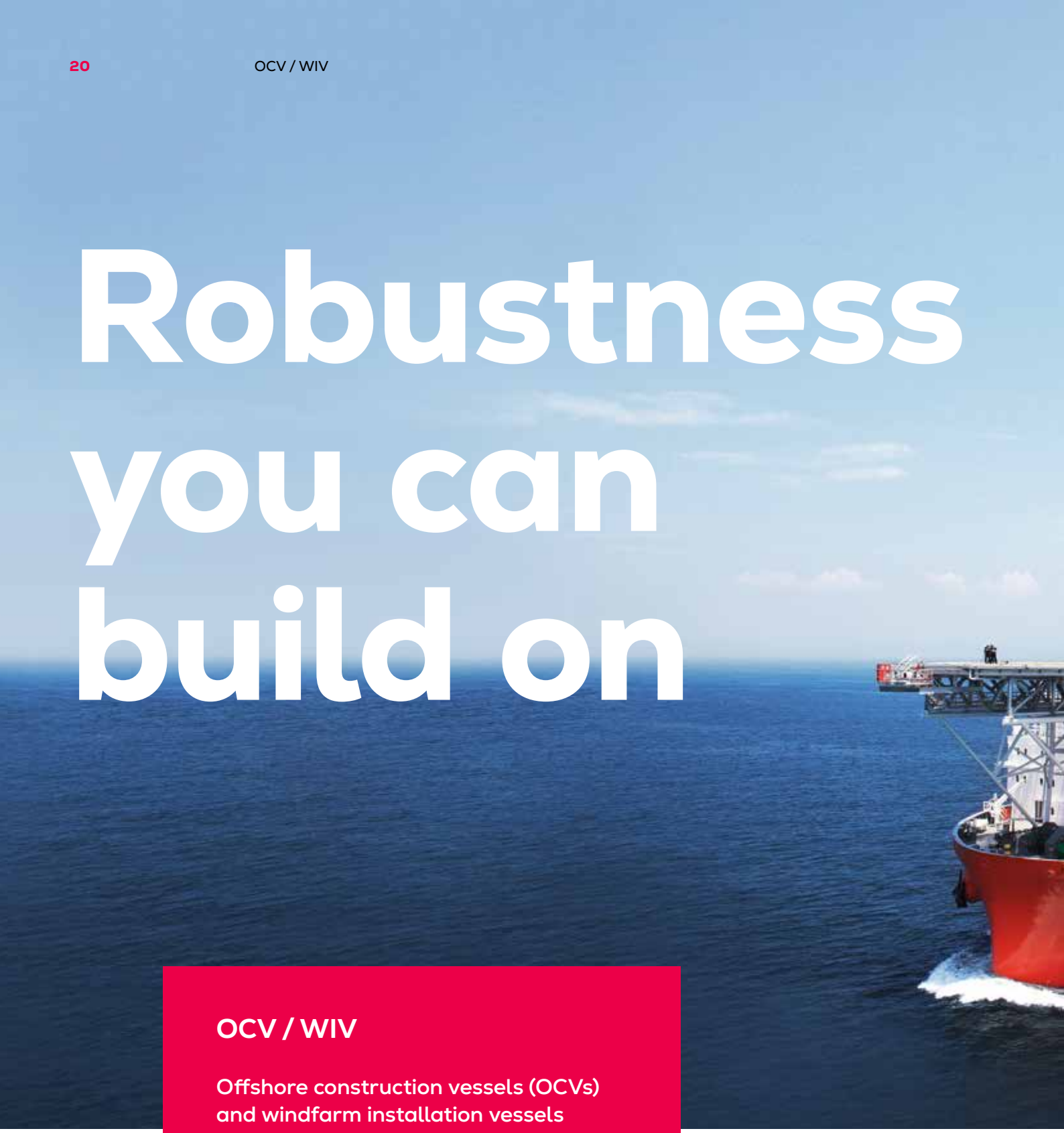
Compact performer

With its quick load response, the 175D allows safe maneuvering in the harshest environments, even in Arctic temperatures. The compact, modular SCR exhaust gas after-treatment system makes the 175D an eco-friendly, sustainable choice with the lowest emissions at maximum efficiency. Easy accessibility enables a long service life, while the small size of the engine allows more space for cargo.

Clear-cut design
A functional design with the minimum weight and dimensions. Easy to commission, easy to operate, and easy to service.

Modular concept
For easy adaptation to different applications, the 175D can be configured with auxiliary equipment and modular components, such as a seawater cooler. It has four auxiliary power take-offs (PTOs).

Robustness you can build on



OCV / WIV

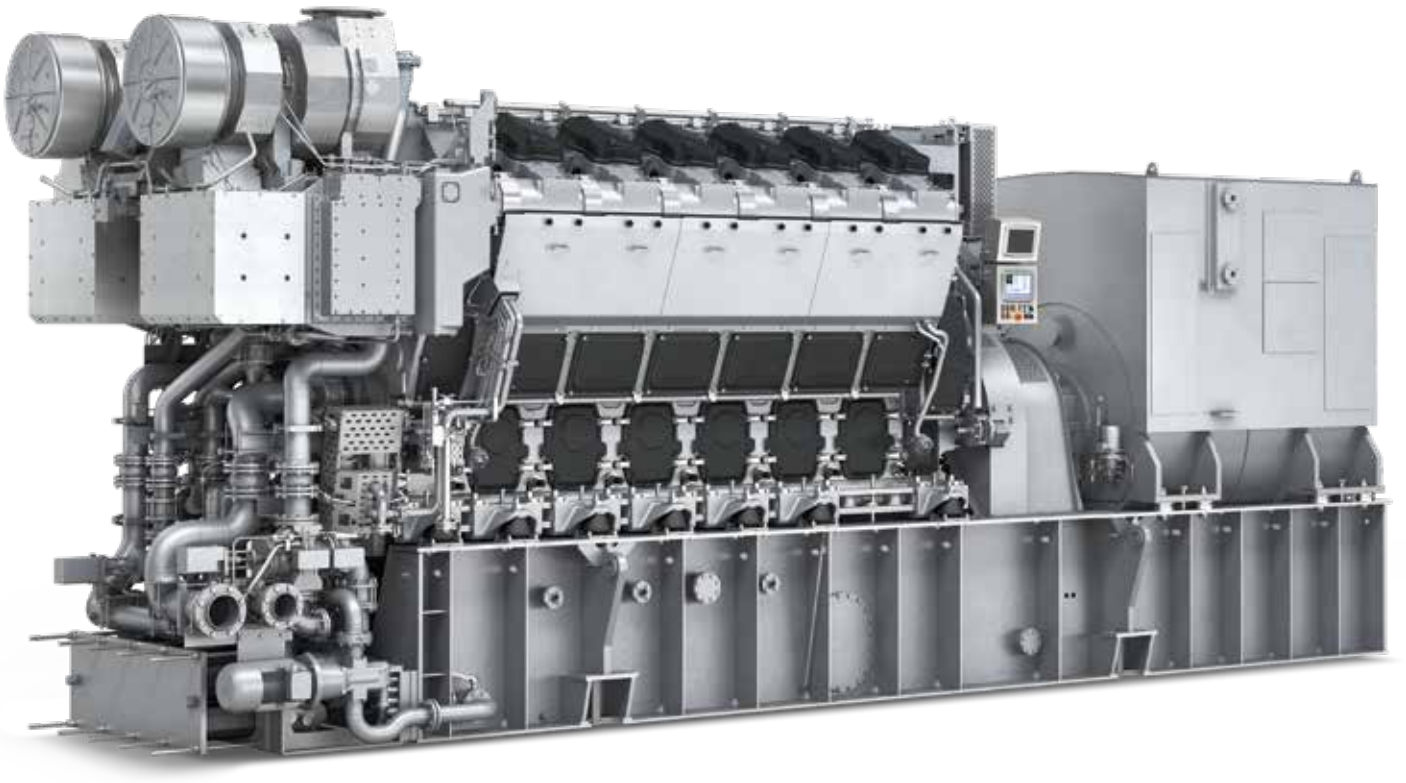
Offshore construction vessels (OCVs) and windfarm installation vessels (WIVs) perform complex offshore tasks such as subsea system installation and windfarm construction. Built for extreme conditions, they also support well intervention and drilling.

Reliable and economic operation

With high deck loads, below-deck storage, and specialized equipment like cranes or moon pools, these vessels require engines that offer durability, long service life, low maintenance needs, and excellent fuel efficiency. Our engines are built to perform in exactly these conditions.

32/44CR GenSet and propulsion

Excellent load response



The flexibility of the common rail injection system allows the fuel consumption and emissions of the 32/44CR GenSet to be optimized according to its operation profile. The engine easily matches different load profiles and provides excellent load acceptance.

Everllence's in-house developed SaCoS 5000 engine safety and control system can detect a load increase at an early stage.

Benefits

Highly efficient common rail technology
Outstanding low-load capabilities and low fuel consumption

Low operating costs
Thanks to SFOC savings due to the in-house development of Everllence ECOMAP

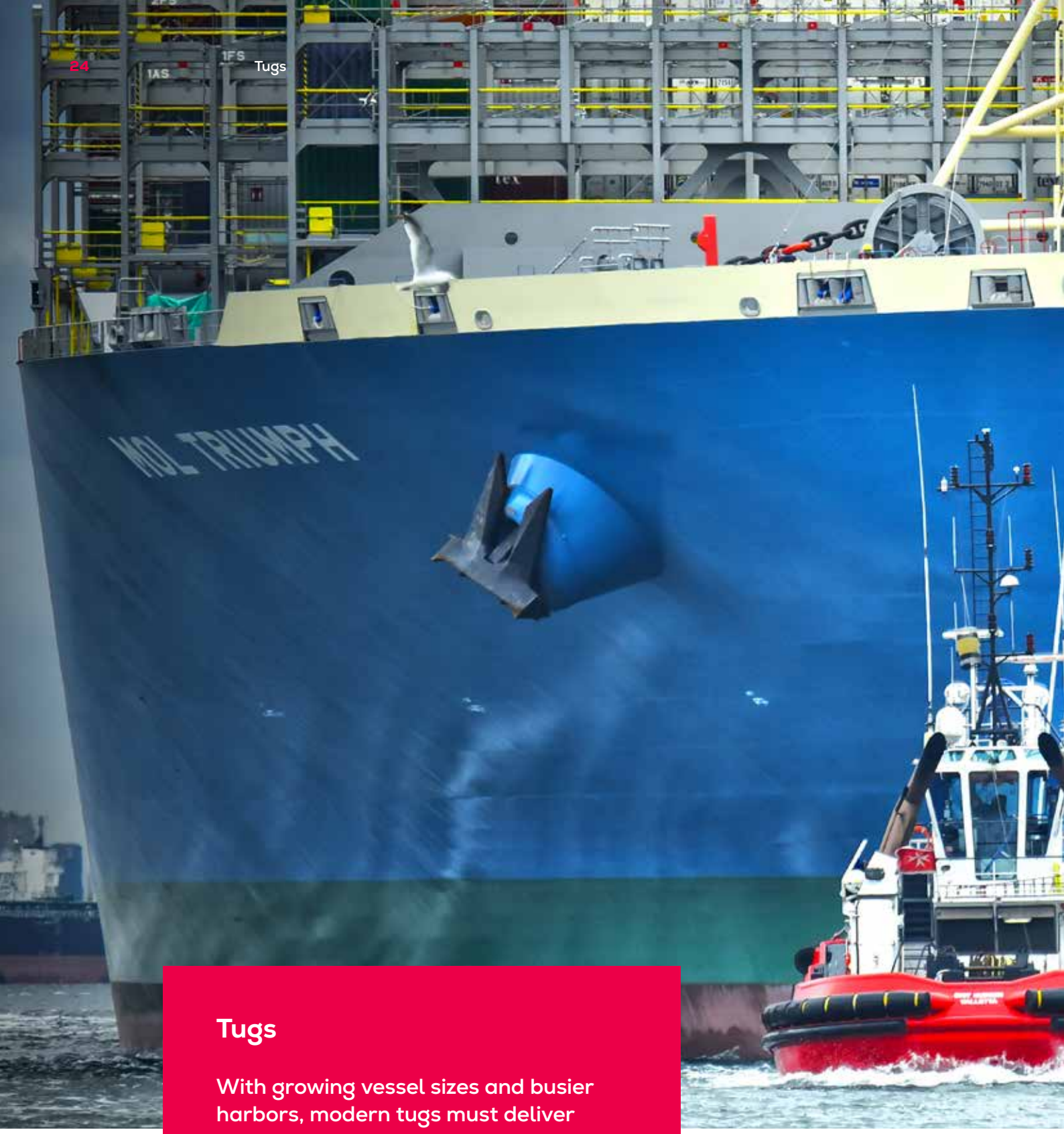
Compact powerhouse

Packing state-of-the-art technology into a minimum volume, the 175D GenSet is the perfect complement to the 32/44CR: Easy to commission, easy to operate, and easy to service.

Common rail injection system
Advanced electronic fuel injection system allows injection timing, duration, and pressure to be flexibly set for each cylinder. The optimized match for each load results in low SFOC / OPEX.

Boost injection
This is a special patented feature for common rail engines. It provides a temporary increase of injection pressure and change of injection timing in the event of load steps.

Everllence ECOMAP
Everllence ECOMAP is a software feature for our electronically controlled engines that allows the engine to be programmed to run according to different SFOC / power characteristics, each of them having optimum efficiency at different load points.



Tugs

With growing vessel sizes and busier harbors, modern tugs must deliver more power and precision for ship handling and port operations.

Small but strong

Clean and flexible engines for hard-working boats

Tugs operate in emission-sensitive environments and need engines that meet strict NOx and particulate limits. Their work pattern combines long idle periods with sudden full-power demand, requiring fast response, high efficiency, and reliable performance. Our engines support a range of propulsion systems and are easy to maintain, even with minimal crew on board.

Hybrid marine solutions

Flexibility and maximum efficiency optimally combined

In a hybrid propulsion system, mechanical and electrical power sources work in tandem within the propulsion train, optimizing efficiency for vessels with variable power demands. This configuration combines mechanical power from diesel engines with electrical power from electric motors, ensuring versatile operational capabilities. It delivers the appropriate power and torque to the propeller across all operating modes.

The integration of batteries can further enhance system efficiency and redundancy, making the vessel more adaptable to changes in operational profiles, whether during a single voyage or over its entire service life.

Hybrid marine solutions are already widely adopted in offshore and workboat operations, and are now increasingly being implemented in advanced Carbon Capture, Utilization, and Storage (CCUS) projects.

Everllence offers fully customized hybrid propulsion and power generation solutions. Every component, including main engines, gensets, switchboards, converters, electric motors, gearboxes, and propellers, is individually engineered to meet specific project requirements.

Benefits

- Large variation of operation modes
- Flexible power demand with fast system responses and high system flexibility
- The propeller can be driven by the diesel engine, and / or by the electric motor
- Highly redundant and reliable propulsion system
- High system efficiency over a wide range of operation modes
- Fuel oil consumption is lower, and fuel-related emissions like SO_X and CO_2 are also reduced
- In CCUS applications, a low carbon footprint is essential across all operational modes, including dynamic positioning (DP), CO_2 capture, storage, and injection

From dock to deep sea and on any site – your trusted service partner

Our service portfolio

We offer a full spectrum of services designed to keep your fleet and plants efficient, compliant, and competitive.

- **Genuine OEM spare parts:** Protect your assets with patented, high-quality components manufactured to OEM standards.
- **Long-term service agreements**: Predictable maintenance planning & cost savings tailored to your operational needs.
- **Retrofits & upgrades:** Future-proof your engines and systems for efficiency, emissions compliance, and competitive performance.
- **Technical service & field support:** 24/7 availability to ensure reliability and rapid response worldwide.
- **On-site recovery solutions:** Fast-track repairs to get your equipment back in service with minimal disruption.
- **Remote monitoring & optimization:** Digital solutions to maximize efficiency, safety, and availability of your Everllence machinery.
- **One-stop services with PrimeServ Omnicare:** Consolidate services for your engines, turbines & compressors across major marine and power brands.
- **Everllence PrimeServ Academy:** Get the best qualifications to operate and maintain your Everllence installations.

Our global service network ensures fast response, expert support and maximum efficiency for your engines and systems – helping you stay ahead with reliability you can trust.

We offer comprehensive service solutions:

Sales & spare parts: Genuine OEM parts, expert consulting, and CRM-based support to optimize availability and performance.

Technical service & maintenance: Precision repairs, reconditioning and lifecycle optimization for long-term efficiency.

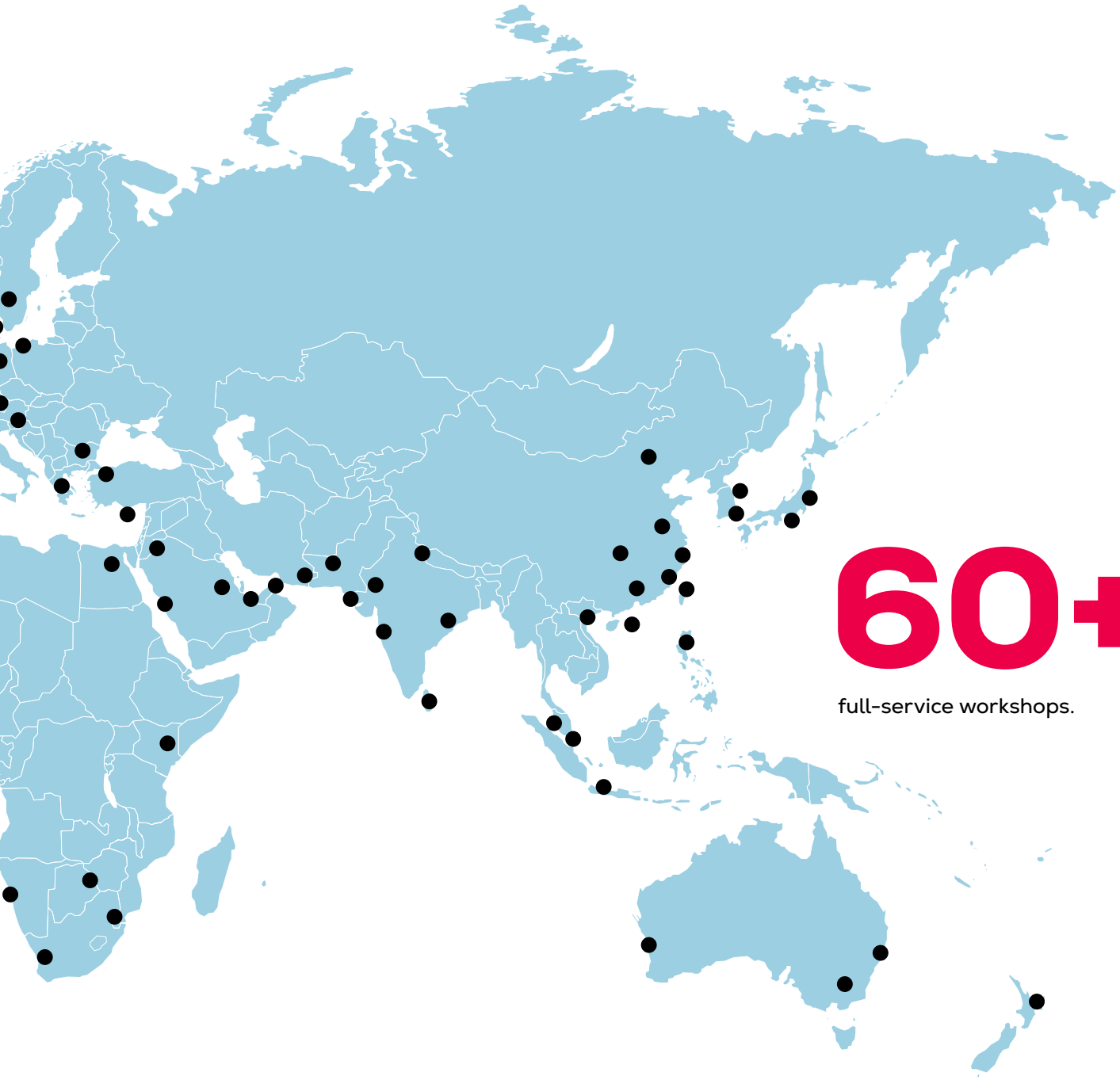
On-site recovery & field service: Emergency response and proactive service, wherever you need us.

100+

locations worldwide.

Our global service at a glance

Did you remember to order spare parts? No problem – we did. We also checked lube oil, engine condition, scheduled maintenance and installed updates. As your service partners, we keep your business running smoothly, securing efficiency and safety 24/7, around the world, on-site and online. We're here for what matters most: your peace of mind.



60+

full-service workshops.

Service is digital – service is smarter
Service has evolved, and so have we. Everllence PrimeServ doesn't just help you maintain your assets, we help you future-proof them. As you navigate the shift towards carbon-neutral operations, our digital service solutions ensure that your technology delivers on its promise.

Powered by expert insight, our real-time support and analytics based on remote monitoring keep your equipment performing at peak efficiency – year after year, without interruption. Because service isn't just about fixing problems – it's about preventing them.

Our location types:
- Sales offices – Spare parts sale & consultation.
- Workshops – Maintenance & repair.
- Flagship service centers – Full spectrum of all services, sales & reconditioning.

Find out more
www.everllence.com/services/service-locations

Everllence

Everllence
86224 Augsburg, Germany
P + 49 821 322-0
F + 49 821 322-3382
info@everllence.com
www.everllence.com

MAN Energy Solutions SE has been renamed to Everllence SE and its products are being rebranded from “MAN” and/or “MAN Energy Solutions” to “Everllence”. As this is an ongoing process, any reference to “MAN” and/or “MAN Energy Solutions” is actually a reference to “Everllence”.

All data provided in this document is non-binding. This data serves informational purposes only and is not guaranteed in any way. Depending on the subsequent specific indivdual projects, the relevant data may be subject to changes and will be assessed and determined individually for each project. This will depend on the particular characteristics of each individual project, especially specific site and operational conditions.

Copyright © Everllence.
EVR000062EN-250600, GKM-AUG