We move you. With agility and power.
Innovative thinking – effective performance.

MTU has been manufacturing large diesel engines and complete propulsion systems for over 100 years. Our idea of partnership is focused on delivering the engines and systems that best fit your needs and making sure they perform smoothly every step of the way.

MTU Navy augmented reality app.

Three different ways to install the app on your smartphone:
• Scan the QR code on this page
• Search for “MTU Navy” on Android Play Store or Apple App Store
• Type in the link on your smartphone www.mtu-online.com/navy-ar

Once the app starts, it will show you the basic handling before it switches to our AR Viewer.
• Each page containing the AR Symbol has additional content offering more information on the subject.
• Some of the content is interactive: it can be clicked on-screen to display the additional information.

You do not have to carry this document around with you. Our content will be available without it: simply navigate to the burger menu and access the respective areas such as videos.
• Some of the content can be downloaded from the web.
• If you require additional information, the app contains a contact form for the purpose.

The meaning of the icons you find in the app:

You can watch a video
You can download the PDF
You can rotate the item 360°
Some additional information is available

Scan QR code to activate augmented reality features.
More than steel.
More than diesel engines.
A lifetime of intelligent power by MTU.

Planning
MTU supplies a complete propulsion solution. Our engineers provide extensive analysis, documentation and risk mitigation as well as integrated mechanical, electrical and electronic interfaces.

ValueCare services
MTU ValueCare ensures maximum performance and lasting value, with a complete portfolio of service options: maintenance, on-site engineering, parts and logistics support.

Integrated Automation System
The MTU Callosum Integrated Automation System offers sailors a central overview of the propulsion plant and on-board power supply. In addition, the system is highly user-friendly and includes full-plant monitoring.

Nationalization
MTU is your far-seeing, solution-minded licensing partner. We have a dedicated department for global licensing, offset and industrial participation.

Integrated Logistics Support
Integrated Logistics Support (ILS) keeps your engines and systems up and running for their entire lifetimes. We will customize your ILS package with products and services to match your specific needs, helping you safeguard up-time and reduce costs.

Modernization
The modernization of propulsion and automation systems is a cost-effective way to preserve and improve the capacity of your vessel. MTU provides systematic planning and implementation of the works.

Integrated Automation System
The MTU Callosum Integrated Automation System allows operators to monitor and control the whole propulsion plant, the on-board power supply and the entire vessel. Callosum is versatile, user-friendly and modular.

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Propulsion systems tailored to your needs.

Corvettes, frigates, destroyers
Corvettes, frigates and destroyers have an impressive presence through their enormous versatility, their wide spectrum of use and their extraordinary propulsion systems. With MTU engines and propulsion systems, they are superbly equipped for their demanding tasks.

Amphibious craft
When landing troops for an amphibious operation or landing supplies for disaster relief - you need to get them to their destination on time, delivered with the precision of a Swiss wristwatch. Our propulsion systems help you to keep to schedule wherever you are.

Corvettes, frigates, destroyers

Mine countermeasure vessels
MTU has always made propulsion systems for applications that require highly-specialized knowledge and expertise. Our propulsion solutions for mine countermeasure vessels demonstrate this perfectly.

Amphibious craft

Submarines
The more specific and complex the demands, the more important and valuable expertise and experience are. For decades, MTU has been setting quality and performance standards for submarine engines.

Large amphibious and support vessels
Although not in the first line, support vessels are vitally important: they feed the fleet with vital supplies and transport troops and equipment where they are needed. That’s reason enough to give support vessels propulsion systems that are always dependable - wherever they operate.

Offshore patrol vessels
Uneventful patrols at high sea can suddenly turn into serious operations. All the more reason to install a robust propulsion system which keeps going - whatever the situation.
Decisive action requires a strong heart.
MTU Core Technologies

All Engines at a glance.

Series 8000
The powerful high-speed engine meeting maximum demands

Series 396
The proven, evolved engine for the naval industry

Fuel injection
MTU optimizes fuel combustion in the cylinder by means of its electronically controlled common rail fuel injection system in combination with other technologies such as exhaust gas recirculation.

Power range
The wide range of 8000 series engines answers to the most extreme demands on the power of a propulsion system. Generally, MTU propulsion plants are available with all axis layouts.

Turbocharging
MTU develops and produces its own turbochargers for high-performance applications. Turbocharging helps achieve low fuel consumption and high performance over a broad range of operating speeds.

Aftertreatment
MTU optimizes exhaust gas aftertreatment systems such as selective catalytic reduction to meet IMO Tier 3 emission limits over lifetime.

Demagnetization
MTU is a leader in the field of propulsion systems with low magnetic and acoustic signatures, allowing us to reduce the magnetism of all ferromagnetic parts with the MTU MRK method to a stable minimum.

Analytics
We use advanced analysis and simulation tools to model existing and future propulsion systems. That includes vibration analysis, component strength verification and performance requirement simulations of entire propulsion systems.

Electronics
The latest generation of MTU’s electronic management system, Advanced Diesel Engine Control (ADEC) controls key systems such as fuel injection and turbocharging that affect both fuel consumption and emission levels as well as vessel performance.

Series 4000
One of the most successful heavy-duty engines ever

Series 4000 U83
The charging unit for submarines

Series 2000
The powerful heart for maximum agility

Series 1163
The proven, evolved engine for the naval sector

Mounting
MTU engines are installed on special rubber mountings to reduce the transmission of structure-borne noise to the ship’s hull. New active mountings support the passive rubber mountings and make their noise reduction far more effective.

Series 166
The proven, control engines for the naval industry

You can find the detailed technical data under www.mtu-online.com/engineroom.

Series 166
One of the most successful heavy-duty engines ever
Our flexible genset solutions are tailored to your needs. You can order them in standardized or customized versions:

- Pre-engineered standardized gensets for commercial requirements with a range of options
- Modularized naval gensets based on our proven Series 4000 for cost-effectiveness and favorable lead times
- Bespoke gensets tailored to the specific requirements for the most challenging requirements

Based on our successful engine Series 2000 and 4000, they serve power demands between 350 and 3200kW/engine.

System support from a single source
Upon request, we can act as single source vendor to take on the technical and commercial responsibility for the entire propulsion, power-generation and automation system – from project engineering and management to support and service. Consolidating these responsibilities reduces the number of interfaces and, therefore, the risks both to the shipyard and the end-user.

MTU Core Technologies

Gensets for service power and propulsion
Power under control.
MTU Ship Automation Systems

Security, dependability and operational readiness

The modular automation system integrates various self-sufficient subsystems into an intelligent overall structure. It gathers all of the ship’s data and displays it clearly on color monitors.

MTU offers four Callosum modules that can be used individually or in combination. A customized network of sensors monitors and controls all areas and functions of the ship’s equipment. With MTU Callosum, every action can be carried out with only three mouse clicks from any networked monitor.

Callosum_MC – monitoring and control

Callosum_MC enables crews to monitor and control the entire propulsion system, the on-board power supply, and all of the ship’s subsystems. Data is collected from the various areas of the ship and displayed at several operator stations. The user-friendly automation system improves operational confidence and the safety of the ship.

Callosum_DC – damage control

The Callosum_DC ship security system prevents and limits damage such as leakages, fire damage and system failures. In the event of an incident, it sets off alarms, provides decision-making assistance and, with its MTU 3-click system, enables the crew to handle any situation quickly and safely.

Callosum_MT – maintenance

Callosum_MT utilizes information and reports collected from Callosum_MC and Callosum_DC to provide support for maintenance. The system guides the user with the help of electronic documentation and 3D videos.

Callosum_TS – training system

Callosum_TS offers system-specific training software. If the crew has to re-establish the security of the vessel quickly in the event of damage, expert knowledge of all MTU Callosum’s functions will be needed. Training scenarios with predefined and a choice of repair options are available for all technicians.
Smarter service.
Built for you.
Integrated Logistics Support is designed to meet the unique challenges of Naval Operations. Integrated Logistics Support (ILS) delivers a customized package — including analysis, spare parts, training and technical documentation — designed to keep your MTU equipment up and running and help you reduce costs. Integrated Logistics Support from MTU includes:

- RAM LCC Analysis
- Training
- Technical Documentation
- Genuine Parts and Consumables

ValueCare Agreements are long-term service agreements from MTU — making it easy to optimize lifecycle costs, maximize uptime and devote more time and resources to your core operations, with tailored solutions to help you:

- Increase operational uptime
- Guarantee parts availability and service quality
- Predict equipment-related costs
- Optimize maintenance planning
- Connect to MTU 24/7

MTU Service

Our mission: Your long-term success.

MTU ValueCare protects your MTU investment, providing 360° customized support to deliver optimum value throughout the life of your equipment.
Marine Defense

We move you.
With agility and power.

Scan QR code to activate augmented reality features.