



## Yacht

We move you.  
With passion.



*Power. Passion. Partnership.*

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# A customer-oriented technological leader.

MTU supplies its customers with technologically-advanced products that are proven in the field. MTU's range of products and services for off-highway applications is extensive and includes both standard and customized solutions.

MTU is the core brand of Rolls-Royce Power Systems AG, which is a world-leading provider of high- and medium-speed diesel and gas engines, complete drive systems, distributed energy systems and fuel injection systems for the most demanding requirements.

The product range of MTU is one of the widest and most modern in the sector. We offer comprehensive, powerful and reliable engine solutions for yachts, commercial ships and naval vessels, construction and industrial vehicles, agricultural machinery, mining, rail and military vehicles as well as for the oil and gas industry. We also provide a full line of service products to help you maximize uptime and performance.

For over 100 years, MTU has been known for cutting-edge innovation and technological leadership. That same spirit of innovation inspires our sustainability efforts. Today and in the future, our focus is on developing and implementing system solutions to maximize efficiency and meet emissions standards.

#### **An expert in technology**

MTU has always set standards in technological expertise for customized product and system solutions. To deliver you maximum power density, we concentrate our innovation on the continuous advancement of our core competencies: fuel injection, turbo charging, exhaust aftertreatment and electronics.

#### **A passionate engine specialist**

We spend every day working together with you, our customers, to deliver engines and systems that best fit your needs. Whether a standard system or a customized solution – we are passionate about the art of engine creation.

#### **A reliable partner**

We understand the specific demands for diverse applications. In collaboration with you, we look for the solutions which are best suited to your individual requirements. Every step of the way – from the start of project planning, during the design of your integrated system solution, at the point of delivery and commissioning and continuing through the care of your product – we are there with you for the entire lifecycle.



#### **1 Technological leader**

As a supplier of high-quality performance propulsion solutions, MTU stands for the highest level of technological expertise.

#### **2 Power**

MTU meets even the most demanding propulsion requirements with powerful and reliable engines and propulsion systems.

#### **3 Passion**

MTU is passionate about fulfilling the needs of its customers with the utmost professionalism and precision.

#### **4 Partnership**

MTU is a reliable and trend-setting partner which acts with foresight in a results-oriented manner.



MTU in the World of Yachts

# Passion is what drives us. This is just as true today as it was 100 years ago.

MTU has repeatedly set new standards in the world of yachts: with a passion for technology and an unwavering commitment to the art of performance and building engines.

#### Your world is our world

Broad horizons. As free as the wind. Enjoyment that knows no bounds. Regardless of whether you are cruising along the most beautiful coasts of the world, coasting relaxedly into the sunset, or want to experience a rush of speed, we know and understand what keeps you moving.

#### Captain in the luxury class

Yachts are a world of their own: a unique combination of style and quality, comfort and speed. That's why it isn't by chance that MTU engines are highly renowned in shipyards, as well as among owners and crews. Yachts with MTU engines have a history of setting standards. For example, the ship that set the record for the fastest Atlantic crossing was powered by MTU engines. But even beyond races and competitions, MTU yacht engines are "first among equals". Through their quality and reliability, they satisfy even the most exclusive demands, and they are considered optimal engines for a wide variety of yacht types.

#### Bundled yacht expertise

- MTU yacht engines are not only extremely powerful and compact, but also fuel-efficient, cost-effective, and reliable.
- The engines are characterized by low vibration and emissions. They also run extremely quietly for your best boating experience.
- We are system suppliers. That means we integrate all components into a finely tuned system based on the wishes and needs of our clients – from the engine as the heart of the system to the transmission and generators to the electronic monitoring and control systems.
- Our yacht propulsion systems contain such innovative technologies as active suspension and **maritune**.
- With **MTU\_ValueCare**, we offer a comprehensive portfolio of services and service products to ensure that your propulsion system retains its value and runs optimally. Our global service network takes care wherever you are.

#### Partners of the highest caliber

If you have the same high demands as we do, if we both have a passion for yachting, then this could be the start of an excellent partnership. Whenever you want to cast off: both we and our engines are ready.

Propulsion Systems for Performance Yachts

# Maximum yachting pleasure – consistently.

In a class of yachts where unbridled speed reigns supreme, our engines display an overwhelming amount of power paired with an impressive level of endurance. That's what we call performance.

## Uncompromisingly dynamic

Coasting along on the water, standing at the helm and taking great pleasure in the ride: performance yachts offer you this experience first hand. With our engines and propulsion systems, they will be as agile and dynamic as the owners want them to be – and still remain easy to control at all times.

Our yacht engines for performance yachts are some of the best in the world. They are renowned due to a full package of built-in advantages – above all an excellent power-to-weight ratio. MTU engines are light, compact and generate impressive amounts of power. Their wide engine map makes optimal performance at all engine speed ranges possible. An important note for all those that love speed: your MTU engine can run for an unlimited time at full load.

## Present in every harbor

MTU has not only earned its good reputation as a result of its high-quality products, but also because of its excellent service. Our professional service ensures that each yacht has the right propulsion system, and our service network keeps everything running smoothly, all over the world. The services and products available to you as part of the **MTU\_ValueCare** portfolio ensure that your propulsion system retains its value and runs optimally for the long term.



## Speed and pleasure without compromise.

MTU engines for performance yachts stand out thanks to their unmatched performance in terms of speed, maneuverability and safety.



Propulsion Systems for Displacement Yachts

# Experience freedom that knows no bounds.

Anyone who wants to stay at sea longer and go out farther needs a highly sea-worthy, robust, safe yacht, and one that at the same time offers every creature comfort imaginable. In short: a yacht that is powered by MTU.



Maximum endurance as well as the utmost reliability and safety are the main characteristics of MTU engines for displacement yachts.

#### **No ifs, ands or buts**

Cruising with a great deal of comfort, enjoyment with responsibility, luxury with maximum reliability: displacement yachts stand for all of these things. When powered by MTU engines, these yachts meet the highest demands on performance, economy, handling, and safety.

#### **Enjoyment with responsibility**

For decades, we have been one of the world's leading suppliers of yacht engines. Excellent references in equipping a wide variety of yacht types – including highly exclusive mega yachts – attest to our experience and unique expertise.

Their agility and outstanding torque is what really makes our engines for displacement yachts impressive. Like all MTU engines, they are also extremely reliable, economical, and a paragon of environmental friendliness. Our propulsion systems have a high level of fuel efficiency, run extremely quietly, and have good handling, and these characteristics lay the foundations for private cruises which are thoroughly enjoyable.

And our service is just as reliable as our products. We are there for you 24 hours a day, seven days a week, all over the world, and our **MTU\_ValueCare** services and products give you added security. So that you can thoroughly enjoy your freedom.

Propulsion Systems for Mega Yachts

# Luxury outside demands luxury inside.

In the class of yachts where the most exclusive demands are made, the best is a matter of course. First and foremost is the propulsion system.

## One of a kind

For you, compromises are out of the question – not with regard to size and design, nor for technology, materials or interiors. Your floating home is built according to your individual wishes, and it reflects your refined tastes. The ultimate luxury of your mega yacht is made perfect by a customized propulsion system from MTU. Exclusive concepts call for exclusive service: that's why we are there for you right from the beginning, and stay with you over the entire life of your MTU engines. MTU provides you with a drive solution individually designed for your yacht – and always embodies state-of-the-art technology.

## Integrated expertise

Our engines have proven their extraordinary abilities time and time again – in millions of hours of operation in a wide variety of applications with a wide range of demands. The experience and expertise gained, from naval applications, for example, are incorporated into the design of our mega yacht propulsion systems. This results in engines with impressive performance, the highest degree of comfort, optimal fuel efficiency, low emission values and innovative technologies.

## First class service

Wherever you are cruising, in whichever port you dock, for whatever reason you need us – our global service network, with our “flying doctors”, is available to you around the clock. Individualized service concepts, which we custom-design to fit your needs within the scope of the **MTU\_ValueCare** program, provide you with maximum security.



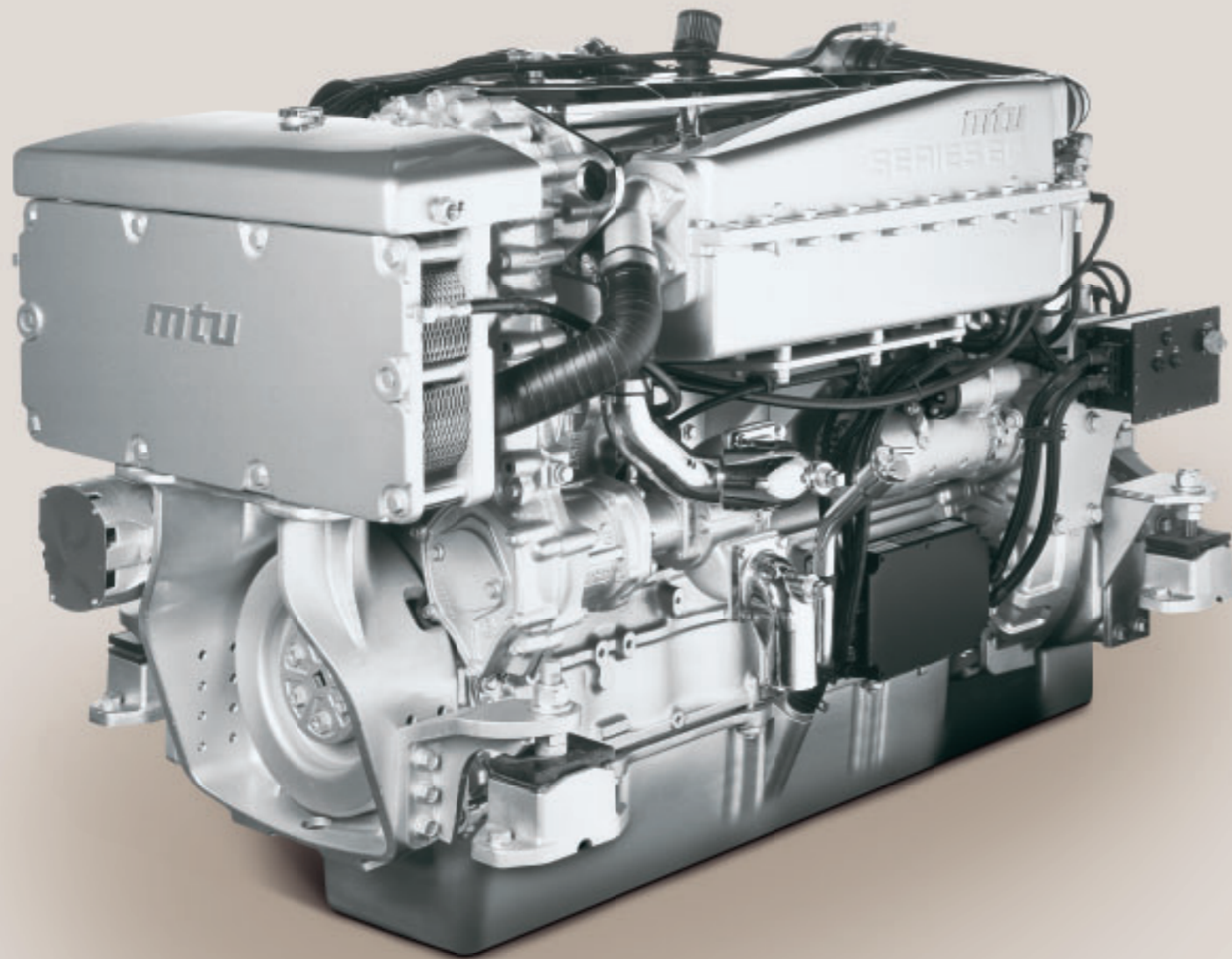
Yacht Propulsion Overview

We move you.  
With passion.

The more challenging the requirements, the more you need MTU engines. We partner with our customers to develop the optimum propulsion solutions. Our broad range of engines are ideal for meeting even the most demanding needs for power.



# Series 60



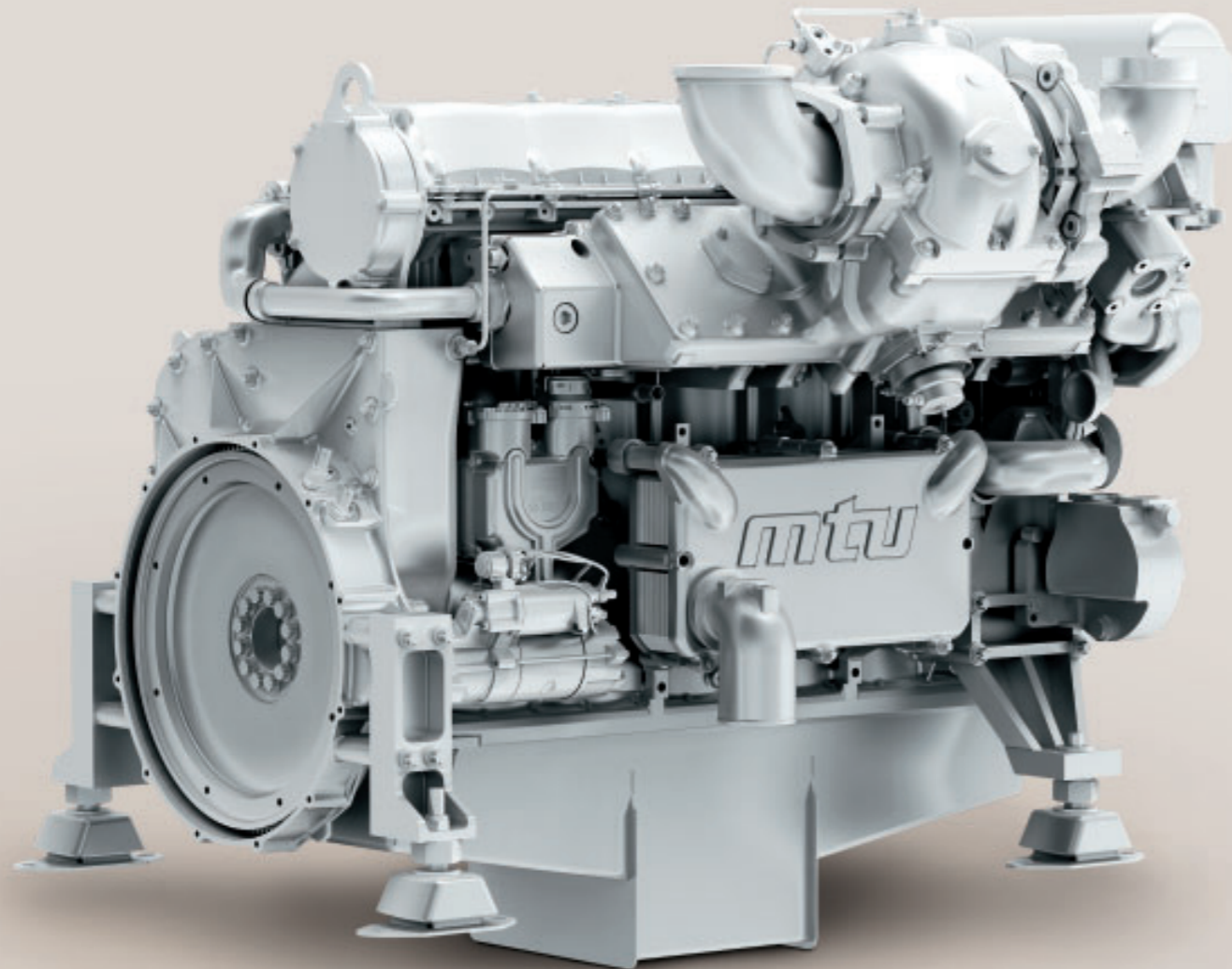
If uncompromising performance in terms of speed, agility and safety are needed:

- MTU Series 60 offers optimum power-to-weight ratio combined with the effortless unfolding of power and bottom end torque.
- MTU Series 60 combines industry leading safety features with the durability and reliability of one of the most successful heavy duty engine. Design and type approved SOLAS and national certifications are features differentiating this engine in the yachting market.

Series 60 6R		for mechanical main propulsion
Power output	kW (bhp)	261 – 615 (350 – 825)
Speed	rpm	1500 – 2300
Emissions		All engines comply with emissions regulations in accordance with IMO II and EPA 2

Series 60 6R		for onboard power generation/ diesel-electric drives	
		50 Hz	60 Hz
Power output	kW (bhp)	271 – 322 (363 – 432)	271 – 370 (363 – 496)
Speed	rpm	1500	1800
Emissions		All engines comply with emissions regulations in accordance with IMO I; IMO II on request	
			IMO II and EPA 2

# Series 1600



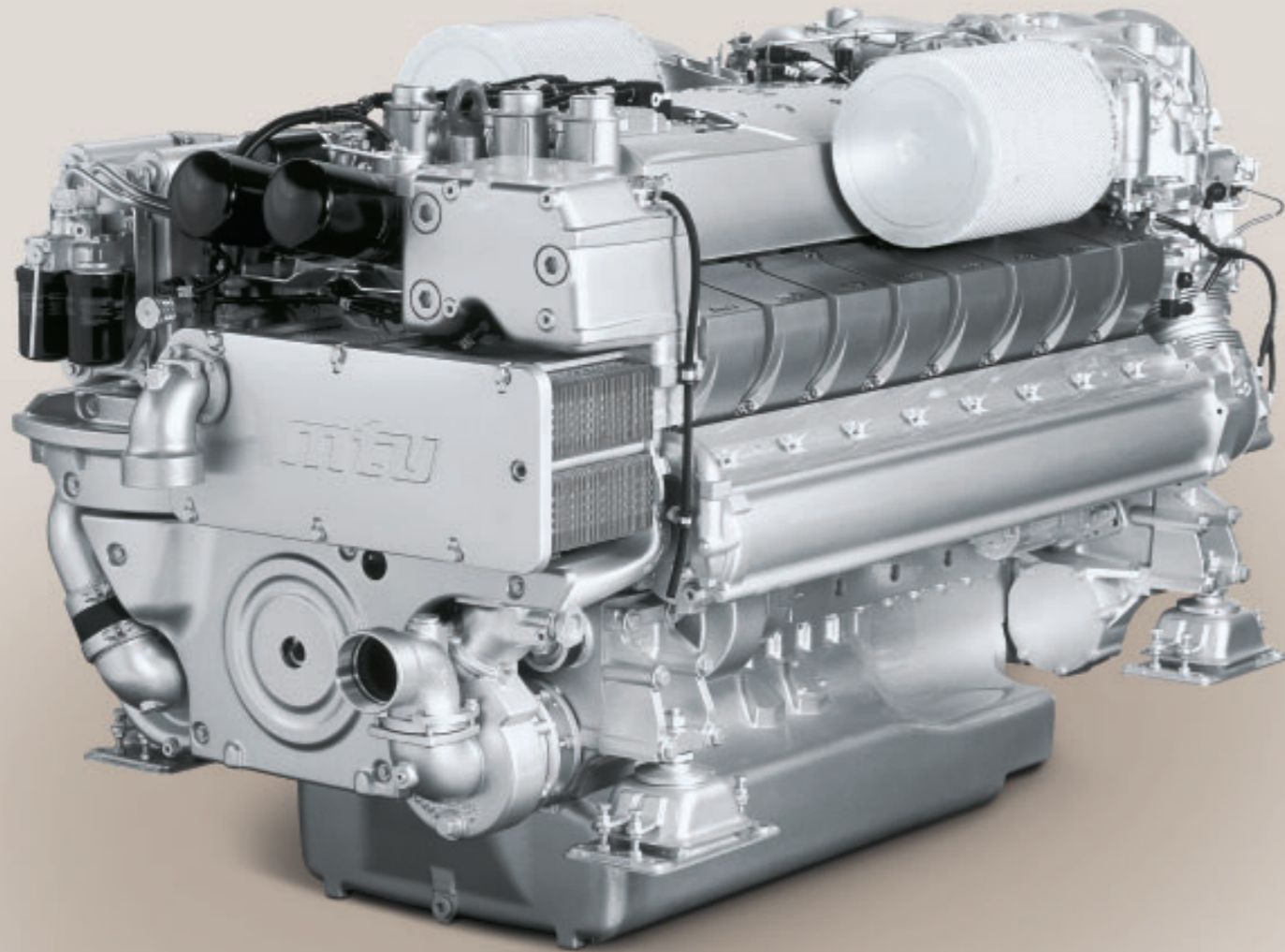
When your requirement asks for reliability, safety and comfort:  
 MTU Series 1600 for onboard power generation

- Uncompromising availability and reliability in operation design and type approval, built in accordance to all major classification society rules.
- Designed and built according to the highest SOLAS requirements.
- Engineered to the most challenging noise, vibration and harshness standards.
- Robust design and marine engine high quality appearance.
- Engine controls and monitoring interfaces compatible to propulsion engines and ship automation.

Dedicated marine propulsion and power generation products tailored to the needs of the professional marine industry is our obligation and heritage.

Series 1600		for onboard power generation/ diesel-electric drives	
		50 Hz	60 Hz
6R			
Power output	kW (bhp)	269 (361)	323 (433)
Speed	rpm	1500	1800
Emissions		IMO II	IMO II, EPA 3

# Series 2000



If unmatched performance in terms of speed, agility and safety are needed:

- MTU Series 2000 combines best in class power-to-weight ratio with effortless unfolding of power and bottom end torque.
- MTU Series 2000 combines industry leading safety features with the durability and reliability of one of the most successful high performance marine engines. Design and type approved by major classification societies and SOLAS make the difference of this engine in the yachting market.
- Designated marine design features enable this engine family to fulfill high-performance marine requirements not compromising the power-to-weight ratio.
- Tried, tested and proven for extreme conditions and operating requirements: chosen by the most demanding maritime organizations, such as coast guards, maritime search and rescue services, law enforcement authorities, etc.
- The compact and outstanding design makes this engine family a real focal point in the engine room of a high-performance yacht.

Series 2000 8V, 10V, 12V, 16V		for mechanical main propulsion
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Power output	kW (bhp)	400 – 1939 (536 – 2600)
Speed	rpm	1800 – 2450
Emissions		All engines comply with emissions regulations in accordance with IMO II and in part also EPA 2, EU III A (including RheinSchUO II) and EU recreational crafts 94/25

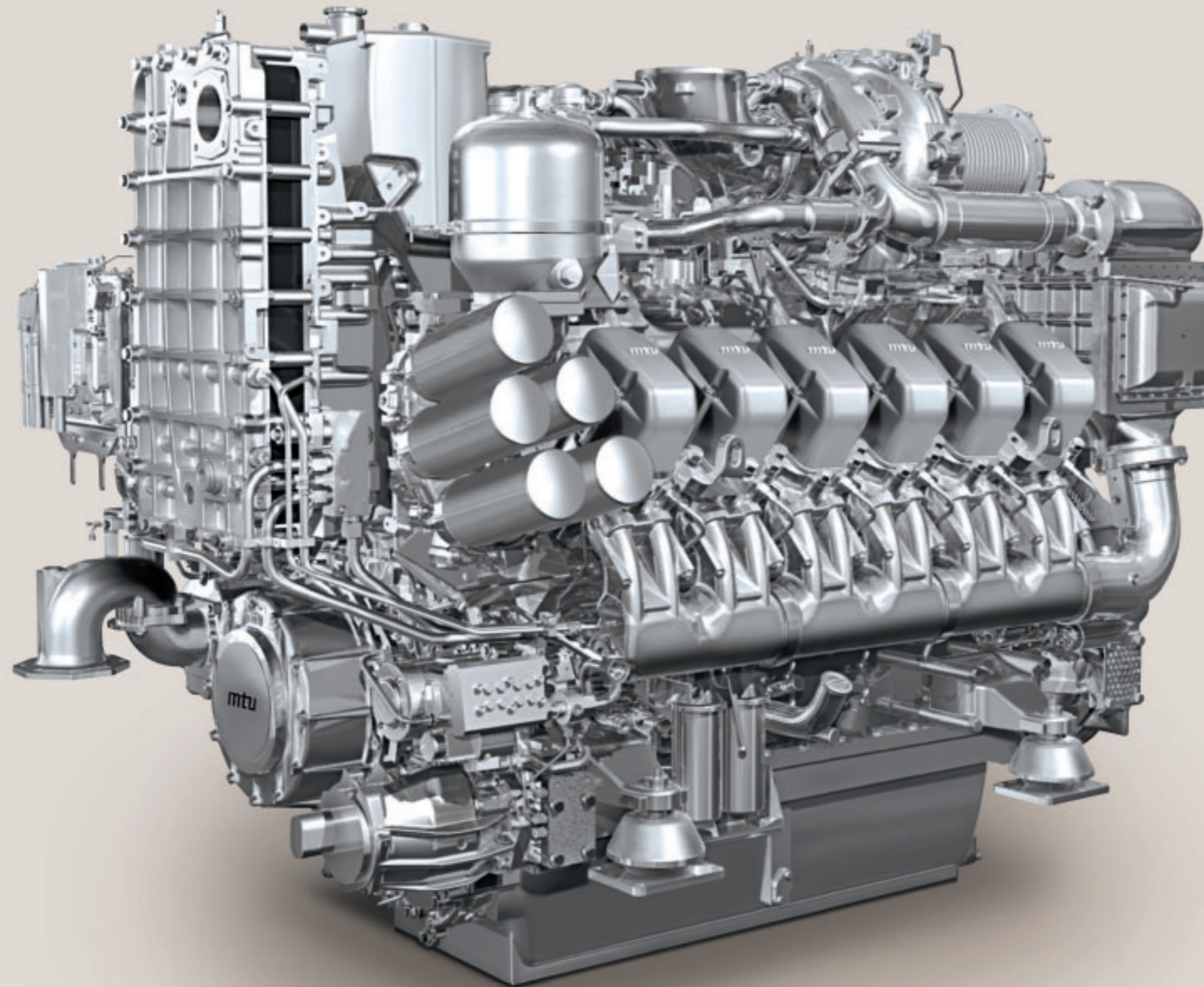
Series 2000		for onboard power generation/ dieselelectric drives	
		50 Hz	60 Hz

Power output	kW (bhp)	332 – 770 (445 – 1033)	400 – 930 (536 – 1247)
Speed	rpm	1500	1800
Emissions		IMO II	IMO II

Some engines for onboard power generation are also available with interface automation **genoline**

# Series 4000

for Displacement Yachts



Especially for displacement yachts where endurance, reliability and safety are needed, Series 4000 ensures:

- A tailor-made propulsion system solution based on MTU's expertise in NVH. The MTU noise, vibration and harshness engineering set standards.
- References from very demanding applications are valid testimonials and proof of MTU's system engineering capability.

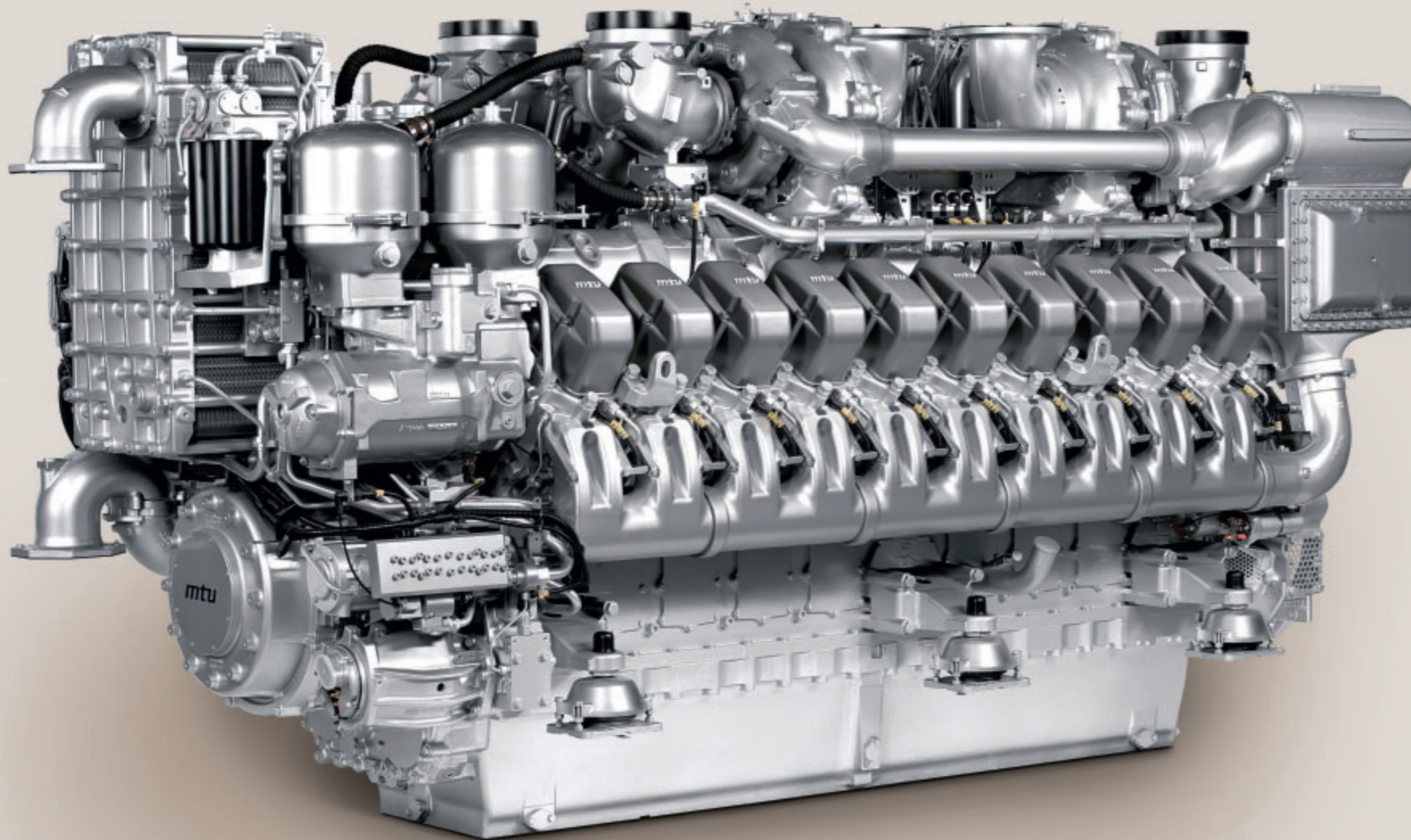
Series 4000 8V, 12V, 16V, 20V		for mechanical main propulsion	
Power output	kW	746 – 3600	
	(bhp)	(1000 – 4830)	
Speed	rpm	1600 – 2050	
Emissions		All engines comply with emissions regulations in accordance with IMO II, and in part also EPA 3 and EU III A (including RheinSchUO II)	

Series 4000		for onboard power generation/ diesel-electric drives	
		50 Hz	60 Hz
Power output	kW	760 – 2600	920 – 3015
	(bhp)	(1019 – 3487)	(1234 – 4043)
Speed	rpm	1500	1800
Emissions		All engines comply with emissions regulations in accordance with IMO II and in part also EPA 3 and EU III A (including RheinSchUO II)	

Some engines for onboard power generation are also available with interface automation **genoline**

# Series 4000

for Performance Yachts



The preferred choice of professionals in the marine industry – MTU Series 4000 combines industry leading safety features with the durability and reliability of one of the most successful high performance marine engines.

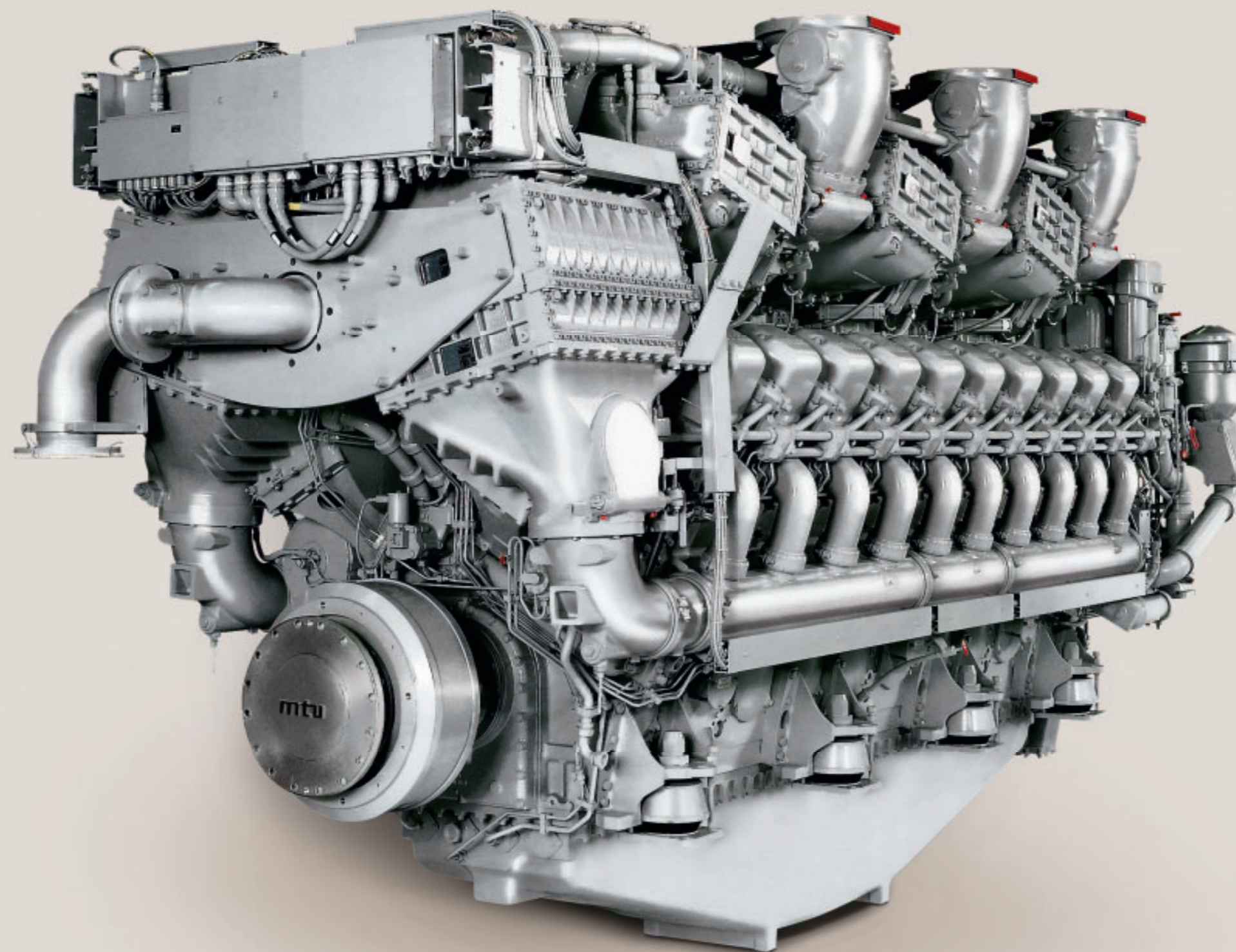
If trend-setting performance in terms of speed, agility and safety are needed, MTU's Series 4000 offers unsurpassed power density in terms of volume-to-power ratio and power-to-weight ratio combined with the effortless unfolding of power and bottom end torque due to MTU's unique sequential turbo charging technology.

Series 4000 12V, 16V, 20V		for mechanical main propulsion	
Power output	kW	2040 – 4300	
	(bhp)	(2736 – 5765)	
Speed	rpm	1500 – 2100	
Emissions		All engines comply with emissions regulations in accordance with IMO I/II, and in part also EPA 2 and EU III A (including RheinSchUO II)	

Series 4000		for onboard power generation/ diesel-electric drives	
		50 Hz	60 Hz
Power output	kW	760 – 2600	920 – 3015
	(bhp)	(1019 – 3487)	(1234 – 4043)
Speed	rpm	1500	1800
Emissions		All engines comply with emissions regulations in accordance with IMO II and in part also EPA 3 and EU III A (including RheinSchUO II)	

Some engines for onboard power generation are also available with interface automation **genoline**

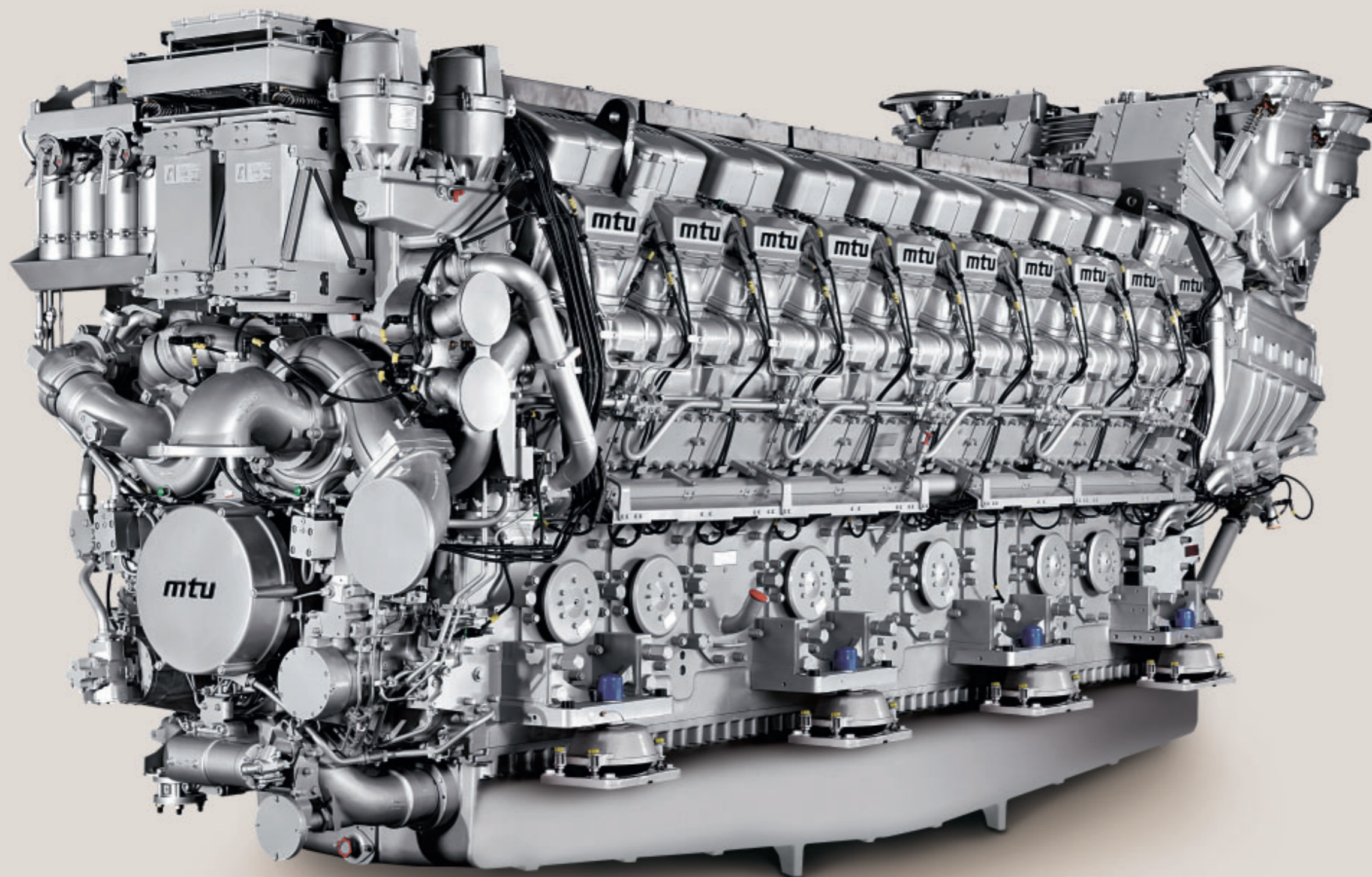
# Series 1163



- The proven and mature engine for the marine industry
- MTU Series 1163 combines industry leading safety features with the durability and reliability of the global market leader of high performance marine engines.
  - Unique tailor-made propulsion system solutions based on MTU's expertise in NVH. The noise, vibration and harshness engineering set standards.
  - References from very demanding applications are valid testimonials and proof of MTU's system engineering capability. Individual customer-specific services for decades to come are the attributes provided to the super yachting fraternity.

Series 1163 12V, 16V, 20V		for mechanical main propulsion
Power output	kW (bhp)	3600 – 7400 (4828 – 9923)
Speed	rpm	1200 – 1250
Emissions		All engines comply with emissions regulations in accordance with IMO I or IMO II

# Series 8000

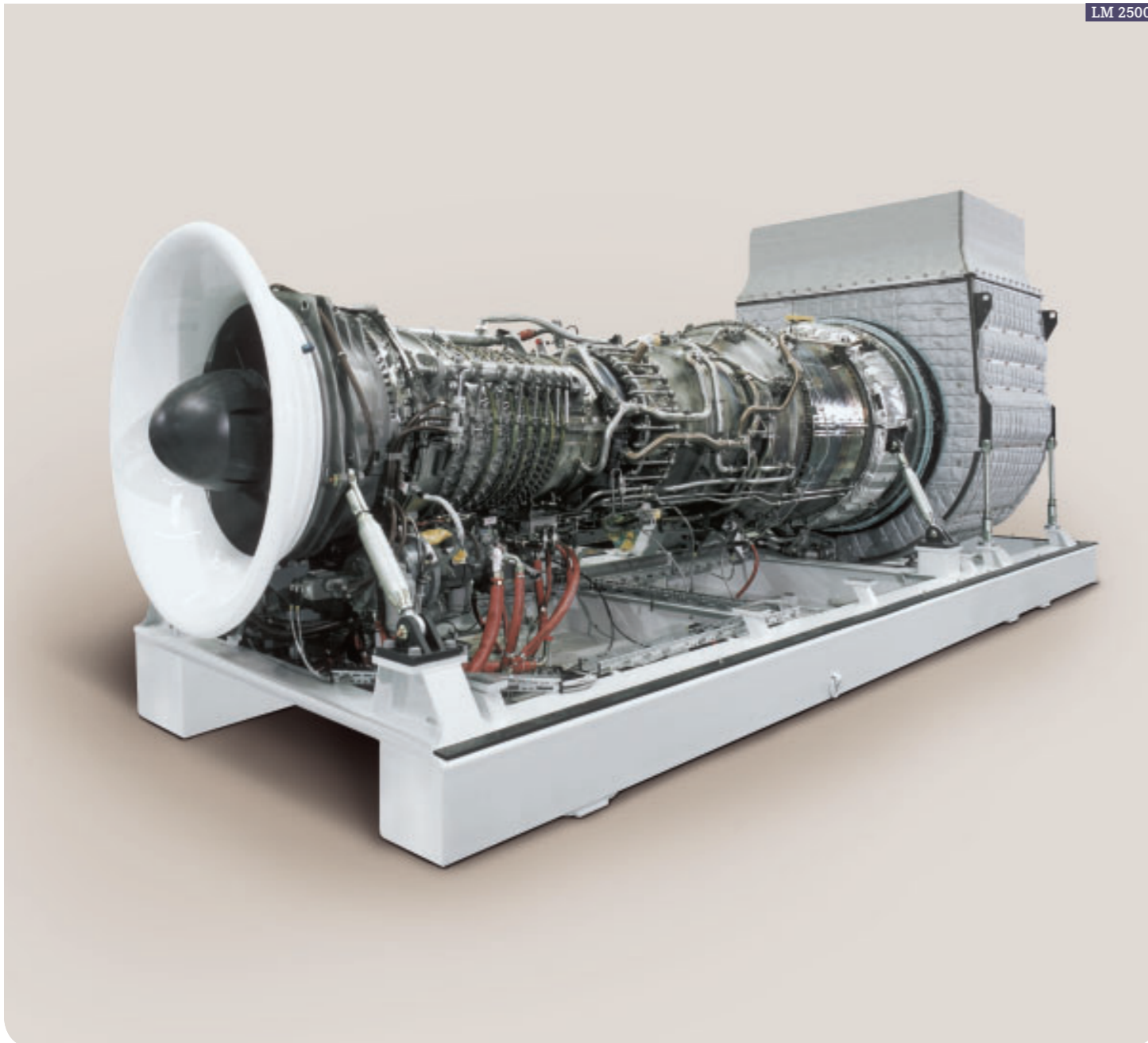


- The ultimate choice for the large mega yacht
- MTU Series 8000 is dedicated to the marine industry with leading safety features, durability and reliability in its class. Unrivalled operational flexibility whether idling or sailing at full speed, the Series 8000 will deliver - without question.
  - Unique tailor-made propulsion system solutions based on MTU's expertise in NVH. The noise, vibration and harshness engineering set standards. References from very demanding applications are valid testimonials and proof of MTU's system engineering capability.
  - Individual customer-specific services for decades to come are the attributes provided to the super yachting fraternity.

Series 8000 20V		for mechanical main propulsion
Power output	kW (bhp)	7200 – 10000 (9655 – 13410)
Speed	rpm	1150
Emissions		All engines comply with emissions regulations in accordance with IMO II and in part also EPA 2

# Gas turbines

## LM 2500 / 2500+ / 2500+G4



### Key features

- High power-to-weight ratio
- Low volume
- Low emissions and vibration
- Operational flexibility – drive design and arrangement
- Easy maintenance – lower maintenance cost
- Improved acoustic signature
- System package including the gas turbine monitoring and control system

Gas turbine model		LM 2500 / 2500+ / 2500+G4
Power Output	kW	25060 – 35320
	(bhp)	(33600 – 47365)
Speed	rpm	3600