



## MTU Gendrive

Reliable technologies.  
Efficient solutions.



*Power. Passion. Partnership.*



# A customer oriented technology 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.



## 1 Technological leader

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

## 2 Passion

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

## 3 Partnership

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

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.



# All kinds of solutions for all kinds of jobs.



As economic development, population and infrastructure grows, so does the demand for energy. Now more than ever, a cost-effective and reliable energy supply is essential. From mission-critical to everyday backup and standby power, MTU provides dependable and economical diesel engines whenever reliability is needed

Gensets worldwide are powered from MTU Diesel engines for a variety of applications:

- Healthcare
- Data Centers
- Airports
- Office buildings
- Commercial building
- Manufacturing facilities
- Hotels and casinos
- Utilities
- Public buildings
- Educational institutions

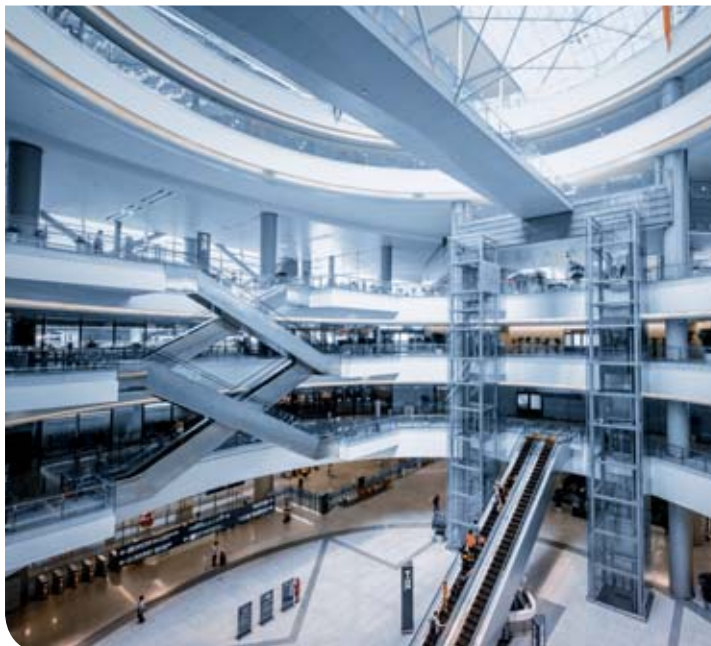
The demands on genset engines for these classic applications are high: High specific power, long service intervals, dependable starting and reliability in continuous operation – even with frequent load fluctuations – are just a few examples.

With MTU diesel engines for gensets, there is no need to make any sort of compromise for these requirements. No matter what the application, the technical design concept of the various engines will allow precise planning and tailoring to suit your individual requirements.

## Keep going

Our commitment to power generation customers extends beyond the sale of our engines and systems

Through MTU **ValueCare** we offer a full line of products and services designed to ensure maximum performance, uptime and value. And our global service network is available to provide expert support wherever you are.



MTU Diesel Engines for Emergency, Prime and Continuous Power

# Powerful. Reliable. Flexible.

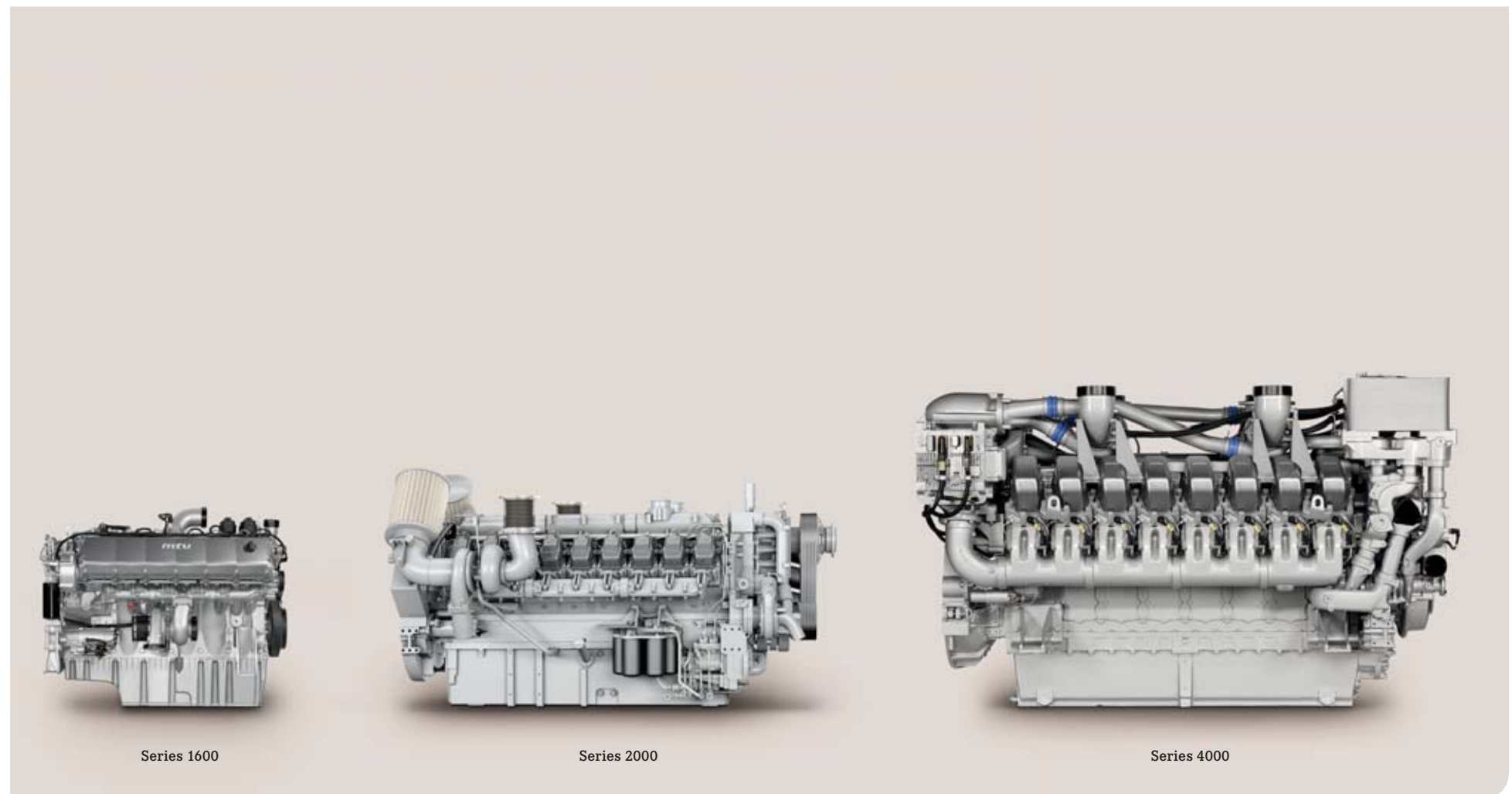
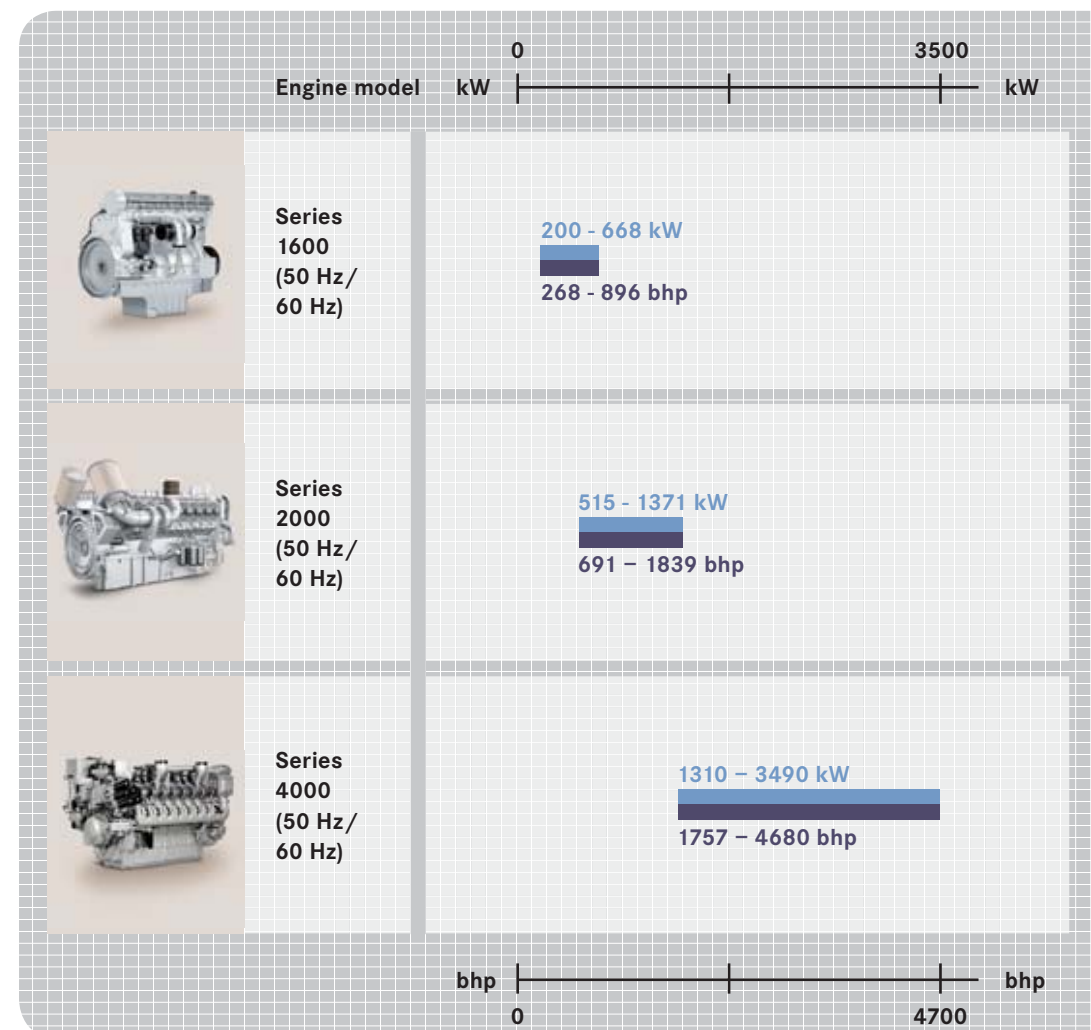
Our range of diesel engines for power generation includes:

- Standby and mission critical applications
- Prime power

The MTU Series 1600, 2000 and 4000 offers a power range from 200 to 3490 kW and provide the highest flexibility to meet individual project requirements efficient.

**MTU engines offer a wide range of benefits:**

- Robust design ideal for extreme conditions
- Low life cycle costs (LCC)
- Proven technology
- Engineered from a single source:
  - all components are certified and tailored
- Emission optimized engines
- Run smoothly, minimal amount of vibration
- Optimized fuel efficiency
- Industry leading average load factor over 24 hours
- High availability of power through performance regulation of temperature and height





# Series 1600

The MTU Series 1600 is clearly showing its strong heritage and brings MTU power, MTU technology and MTU reliability to the power range from 200 to 668 kW. And with that, the traditional benefits of MTU engines are also available in the lower power range.

Series 1600 G00				
6 cyl. In-Line,				
8, 10, 12 cyl./90° V				
Application	Rated Power		Speed	Emission Certification*
	kWm	bhp		
Constant speed 50 Hz				
Continuous power	200–448	268–601	1500	Fuel consumption optimized
Prime power	249–576	334–772	1500	Exhaust emission TA-Luft optimized**
Prime power limited	249–576	334–772	1500	EU Nonroad Stage IIIA (97/68/EG-2004/26/ EG),
Standby power	274–634	367–850	1500	NEA Singapore for Off Road Diesel Engines (ORDE) – compliant EPA Tier 2
				India ARAI/2004 Stage I
				India ARAI/2004 Stage II
Constant speed 60 Hz				
Continuous power	284–510	381–684	1800	Fuel consumption optimized
Prime power	284–608	381–815	1800	US EPA Nonroad Tier 2 stationary (40 CFR 60)
Prime power limited	–	–	–	US EPA Nonroad Tier 2 compliant (40 CFR 89)
Standby power	312–668	418–896	1800	US EPA Nonroad Tier 3 stationary (40 CFR 60)
				US EPA Nonroad Tier 3 compliant (40 CFR 89)

\* A detailed allocation of the emission regulations to the engine types can be found in the Gendrive sales program.

\*\* Measured according to TA-Luft.



1 6R 1600 G



2 8V 1600 G



3 10V 1600 G



4 12V 1600 G

# Series 2000

The proven reliability of the MTU Series 2000 continues to be demonstrated with low fuel consumption and long maintenance intervals. The new MTU Series 2000 improves upon the years of reliability our customers have come to expect, along with state-of-the-art common rail injection technology, reduced fuel consumption and improved performance. Available in July 2014, the new Series 2000 will cover the 665 – 1371 kW power range.

Series 2000 G05				
12, 16, 18 cyl/90° V				
Application	Rated Power		Speed	Emission Certification*
	kWm	bhp		
Constant Speed 50 Hz				
Continuous power	515–720	691–966	1500	
Prime power	580–1000	778–1341	1500	
Prime power limited	–	–	–	
Standby power	635–1100	852–1475	1500	
Constant speed 60 Hz				
Continuous power	580–900	778–1207	1800	
Prime power	710–1191	952–1597	1800	
Prime power limited	–	–	–	
Standby power	780–1310	1046–1757	1800	

\* A detailed allocation of the emission regulations to the engine types can be found in the Gendrive sales program.

\*\* Measured according to TA-Luft.

Series 2000 G06 *** 12, 16, 18 cyl./90° V				
Application	Rated Power		Speed rpm	Emission Certification*
	kWm	bhp		
Constant speed 50 Hz				
Continuous power	665-887	892-1189	1500	
Prime power	665-1102	892-1478	1500	
Prime power limited	—	—	—	
Standby power	732-1235	982-1656	1500	
Constant speed 60 Hz				
Continuous power	—	—	—	
Prime power	716-1097	960-1471	1800	
Prime power limited	—	—	—	
Standby power	1371	1839	1800	

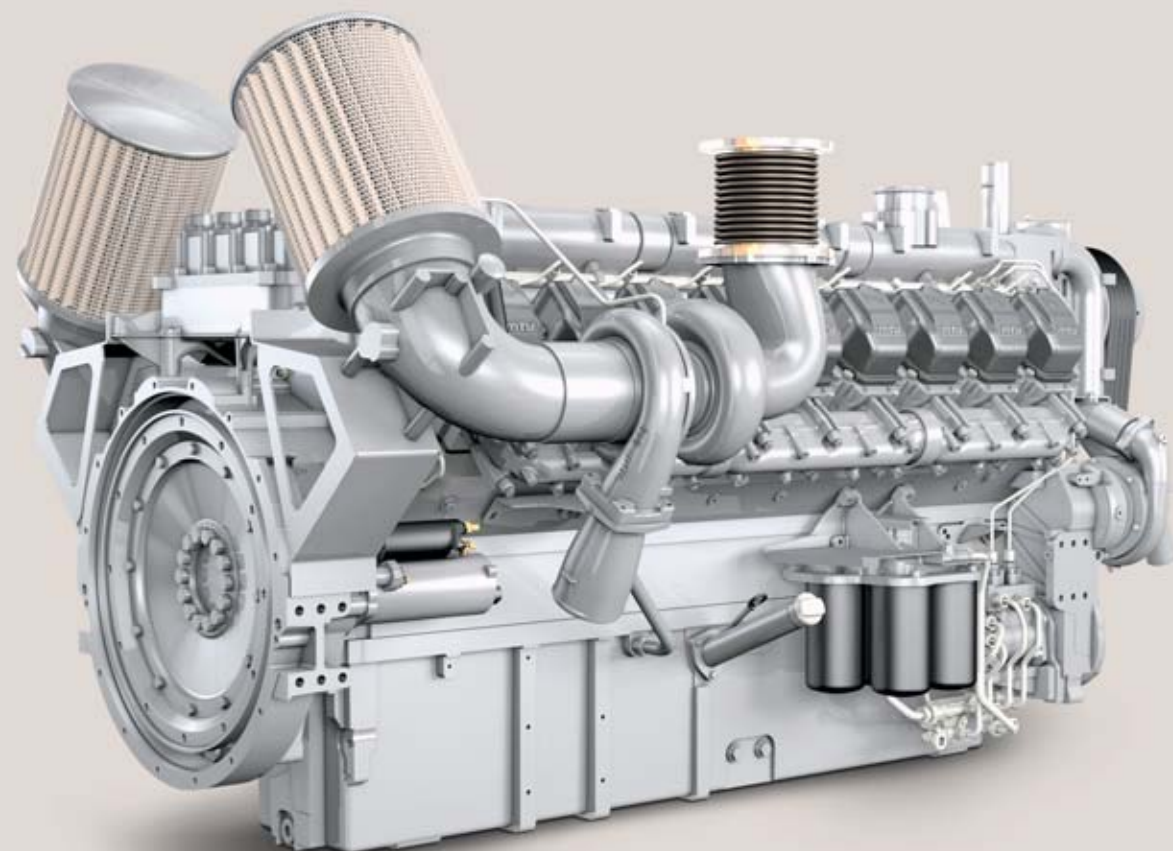
\* A detailed allocation of the emission regulations to the engine types can be found in the Gendrive sales program.

\*\* Measured according to TA-Luft.

\*\*\* Versions available in July 2014: 12V 2000 G06 TD (50 Hz), 16V2000 G06 TD (50 Hz) and 18V 2000 G06 TD (50/60 Hz)



Series 2000 G05



Series 2000 G06





# Series 4000

The Series 4000 performs at the highest level and covers the power range from 1310 to 3490 kW. With the robust design and the optimal fuel consumption the Series 4000 is trusted from customers around the world.

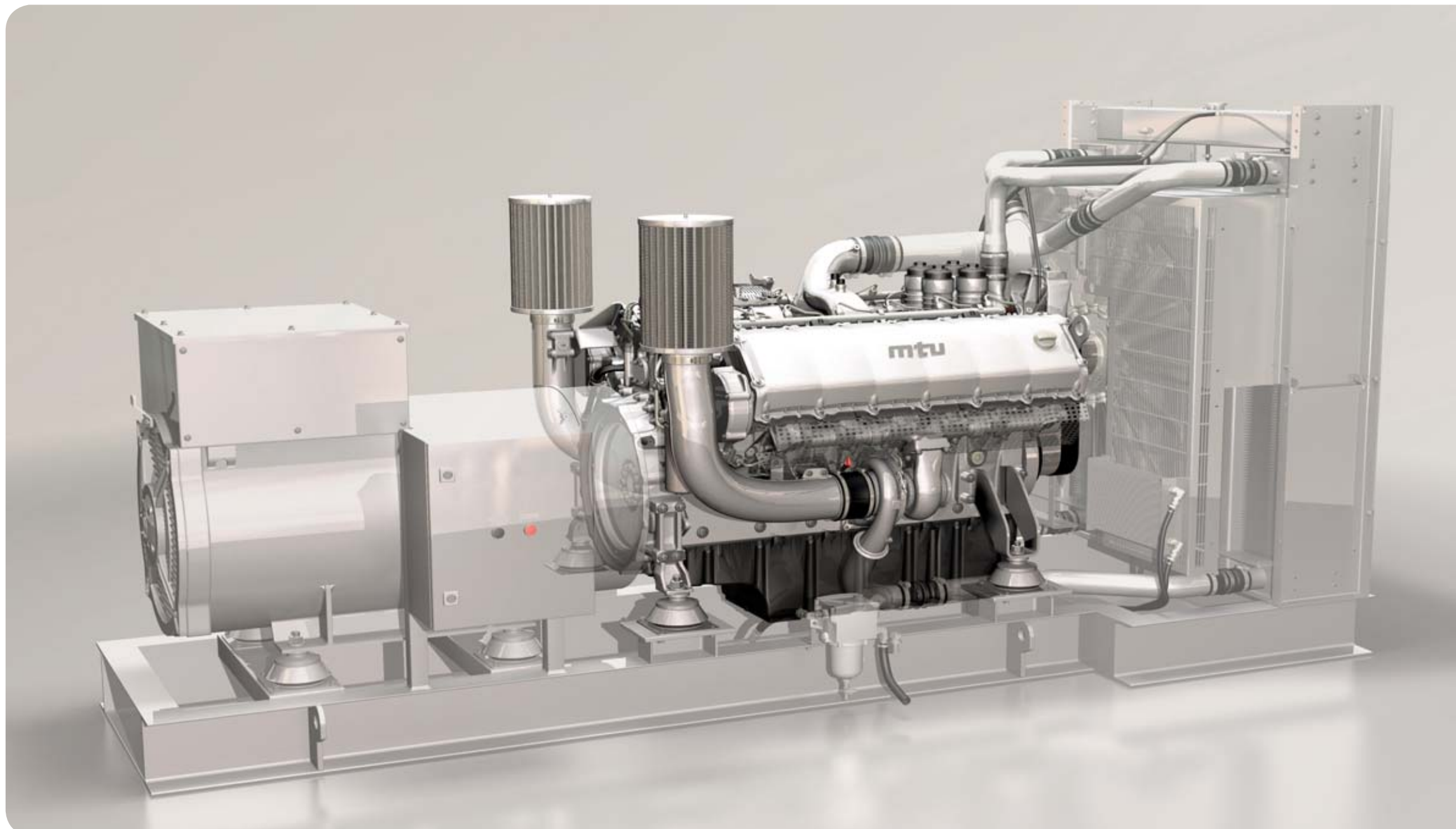
Series 4000 G03 12, 16, 20 cyl./90° V			
Application	Rated Power		Emission Certification*
	kWm	bhp	
Constant speed 50 Hz			
Continuous power	1310–2200	1757–2950	1500
Prime power	1205–2590	1616–3473	1500
Prime power limited	–	–	–
Standby power	1575–2850	2112–3822	1500
Constant speed 60 Hz			
Continuous power	1190–2490	1596–3339	1800
Prime power	1520–3010	2038–4036	1800
Prime power limited	–	–	–
Standby power	1736–3490	2328–4680	1800

\* A detailed allocation of the emission regulations to the engine types can be found in the Gendrive sales program.

\*\* Measured according to TA-Luft.

# State-of-the-art systems technology. Intelligent electronics.

Our engines are powerful and technologically advanced. But in order to offer the best efficiency, reliability and environmental safety, they need more than just power. They need intelligent management. Modern electronic engine management systems handle the control and monitoring of the hardware and so enable perfection of performance. The combination of power and precision.



## 1 Electronic Engine Control Unit (ADEC)

- Engine monitoring and management
- Communication with auxiliary systems via the CAN bus SAE-J1939
- Self-monitoring and diagnosis
- Extensive input/output channels
- Programming and configuration using an interactive device
- Triggering of injectors with multi-point injection for optimized fuel consumption and low emissions

## 2 Smart Connect

Special designed interface for Gendrive applications:

- Display of error codes from ECU
- Direct connection to access pre-set parameters
- Interactive interface
- Web server access and remote diagnosis
- Life data recording
- USB connection for maintainaince concept



# Keep going.



We have a strong commitment to our gendrive customers. With MTU **ValueCare**, this focus extends beyond the sale of our engines. From spare parts and technical documentation to customized maintenance and repair solutions, MTU offers a full range of support to help keep your MTU equipment running smoothly.



Designed for maximum performance, uptime and value, MTU **ValueCare** is a diverse portfolio of products and services offered through three product lines:

**ValueService**  
Extensive global service and support to help maximize performance and uptime

**ValueSpares**  
Genuine spare parts and top-quality consumables designed specifically for MTU engines

**ValueExchange**  
Remanufactured parts and engines engineered with the same high-quality standards as new products

**Expert assistance. For longer life.**  
Reliable, expert assistance is essential to achieving and maintaining high levels of performance and unconditional reliability throughout an MTU engine's lifecycle. **ValueService** is a full line of maintenance, repair and service solutions designed to help maximize the performance and uptime of MTU engines. From scheduled and unscheduled maintenance and repair to technical documentation to product training, MTU provides comprehensive support, customized to meet your unique needs.

**Genuine parts and consumables. For maximum performance.**  
To keep your MTU engines running at optimum efficiency, choose from a full line of genuine **ValueSpares** parts and consumables. They're designed, tested and approved specifically for MTU engines. Whether it's spare parts or filters, oils and coolants, only MTU can guarantee genuine quality, with parts and consumables that are designed to work seamlessly with your MTU product. **ValueSpares** products help you get maximum performance and value from your equipment. And for your convenience, putting our parts and consumables to work is easy. **ValueSpares** products are available worldwide from a single source through our MTU service network.

**Rebuilt to last.**  
Whether replacing a single component or an entire engine, quality is essential. When you choose **ValueExchange** products, you get genuine MTU quality, speed and peace of mind while lowering costs. **ValueExchange** provides a full range of genuine remanufactured MTU parts and engines – all engineered to ensure robust, reliable performance. A rigorous reconditioning process ensures the same high standards of performance, service life and quality as new products – including design and model-related updates. As a result, genuine **ValueExchange** products feature similar technological advancements as new products. And for added confidence, we back our products with a full manufacturer's warranty.

Service Network

# Local support. Worldwide.

The reliability and performance of your MTU equipment is crucial for your success and competitiveness. We are committed to your support. Our convenient global service network provides you this assurance. Whenever and wherever you need expert support, MTU specialists are available. This continuous and long-term care ensures high availability, dependability and efficiency throughout the lifecycle of your MTU product.

To find your local MTU distributor, visit [www.mtu-online.com](http://www.mtu-online.com).



**Local support. Worldwide.**  
We ensure that you receive individualized support from our global network of more than 1,200 service centers – anywhere, anytime.

- Global Headquarters
- Regional Headquarters
- Sales and Customer Service Center



