

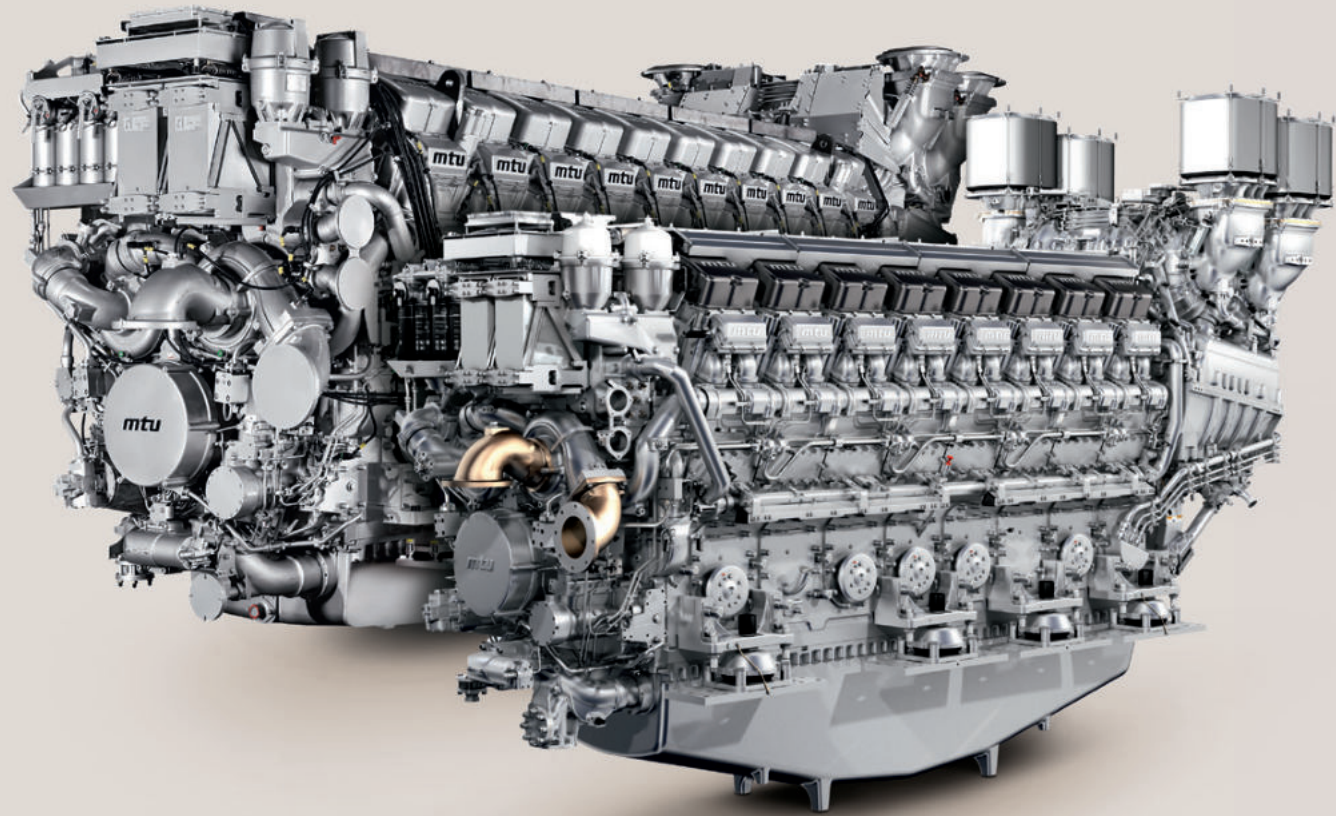
## Marine

Series 8000  
diesel engines for  
marine applications



*Power. Passion. Partnership.*

Finally, an engine that can match the MTU 20V 8000: the MTU 16V 8000.



# Hearts of steel.

- + Over 200 20V Series 8000 engines sold worldwide
- + Delivering outputs from 7,280 to 10,000 kW
- + Over 1.5 million hours of runtime to date
- + Full naval qualifications for all 20V and 16V units
- + Complete, customized, fully integrated solutions
- + Compact design with excellent power-to-weight ratio
- + Unlimited low-load operation
- + Exceptional engine availability and long service intervals
- + Engine TBO up to 72,000 hours

# Eight out of over 200.

The few selected examples intend to give you a quick idea of the variety of engines and propulsion systems as well as the many application areas.



USA | US Navy | "Independence" class (LCS 2)  
2x Series 20V 8000 M91L @ 9,100 kW each



Germany | German Navy | FGS "Bonn"  
2x Series 20V 8000 M71R @ 7,200 kW each



Italy | Italian Navy | "PPA" class  
2x Series 20V 8000 M91L @ 10,000 kW



Singapore | Singapore Navy | "Formidable" class  
4x Series 20V 8000 M90 @ 8,900 kW each



Oman | Royal Navy of Oman | "Al Khareef" class  
2x Series 20V 8000 M91 @ 9,100 kW



India | Indian Coast Guard | "Vishwast" class  
4x Series 20V 8000 M90 @ 9,000 kW each

## 20V 8000

- Top-selling engine in its class
- Outstanding power-to-weight ratio
- Up to 10 MW power output
- Unlimited low-load operation
- ABS NVR (Naval Vessel Rules)-approved
- Low life-cycle costs
- Meets German Navy BV, US Navy MILSTD and NATO STANAG requirements as well as ABS Naval Vessel Rules
- Designed and built according to SOLAS requirements

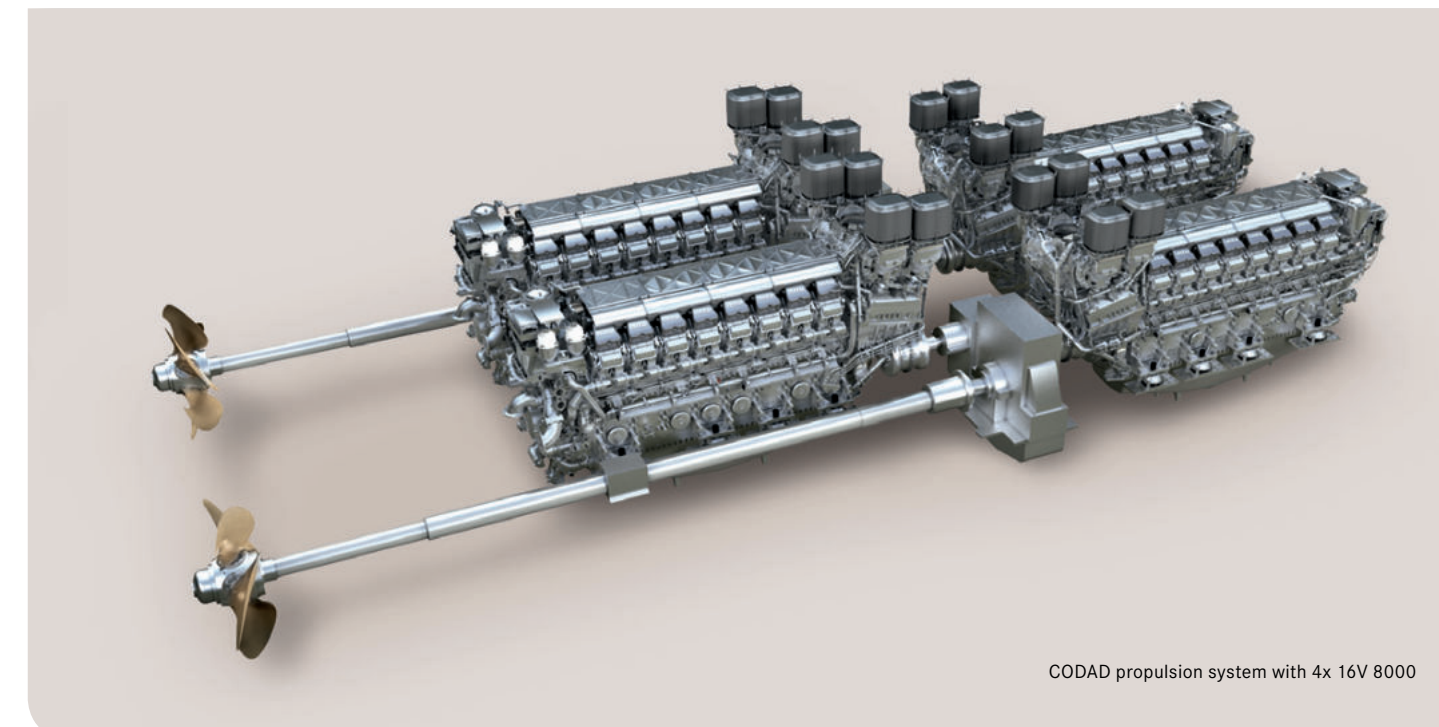
Rated power	10000 kW (13410 bhp)
Emission certification	IMO Tier 2 compliant
Number of cylinders	20 in 48° V-angle
Speed	1150 rpm
Displacement	347.4 l (21200 cu in)
Dimensions (L x W x H)	6645 x 2040 x 3375 mm (261.6 x 80.3 x 132.9 in)
Weight (dry)	49600 kg (109348 lbs)

## 16V 8000

NEU!

- Even more compact than the 20V 8000
- Low fuel consumption
- Exceptional availability
- Long service intervals
- Unrivalled operational flexibility
- Meets German Navy BV, US Navy MILSTD and NATO STANAG requirements as well as ABS Naval Vessel Rules
- Designed and built according to SOLAS requirements

Rated power	7280-8000 kW (9762 bhp)
Emission certification	IMO Tier 2 compliant
Number of cylinders	16 in 48° V-angle
Speed	1150 rpm
Displacement	278 l (16964 cu in)
Dimensions (L x W x H)	5698 x 2040 x 3375 mm (224.3 x 80.3 x 132.9 in)
Weight (dry)	42000 kg (92594 lbs)



CODAD propulsion system with 4x 16V 8000



Republic of Malta | "Jean de la Valette", Virtu Ferries  
4x Series 20V 8000 M71L @ 9,100 kW each



Spain | "Benchijigua Express", Fred Olsen S.A.  
4x Series 20V 8000 M71L @ 9,100 kW each

> Scan to download datasheets

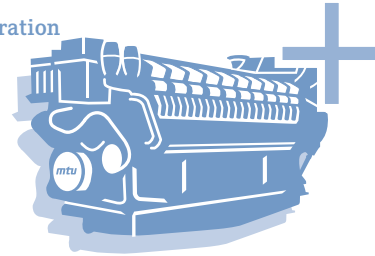
# Does your engine have what it takes?

Our engines are best-sellers for a reason. Since the year 2000, some 200 MTU Series 8000 engines have clocked up over 1.5 million hours of runtime in numerous marine defense missions and other applications imposing the toughest operational requirements. Whether you choose one of our latest 16V units or a classic 20V, we deliver exactly the engine you need to get the job done.

## Your power from one source.

MTU Series 8000 diesel engines are highly evolved and with power outputs from 7.28 to 10 MW cover the widest range of applications. But that's not all. As your systems partner, we supply you with a complete and fully integrated propulsion system in whatever configuration you need, including on-board power generation and ship automation.

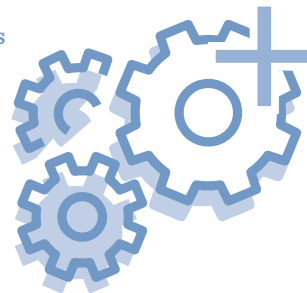
- Propulsion system supplier covering full performance spectrum
- All possible diesel engine and gas-turbine configurations
- On-board power generation
- Ship automation



## Always a perfect match.

Our PSI (Propulsion System Integration) team designs customer-specific solutions and supports your shipyard all the way from design to testing to ensure the perfect interplay of all components and keep engineering, installation and commissioning costs to a minimum. We provide:

- Leading technology innovator and supplier of complete propulsion systems
- Tailor-made solutions
- Over 65 years of naval ship building experience
- Dedicated PSI team
- Direct support for you, OEMs and your shipyard
- Independent reviews and compliance checks



## Tomorrow's performance will be as good as today's.

Our worldwide service network and customer-specific services such as MTU ValueCare and Integrated Logistics Support (ILS) ensure that you obtain the very best system performance at all times, bringing you the highest level of availability, reliability and cost-effectiveness.

- Complete system service solutions
- Customized service packages
- A maintenance schedule tailored to your needs
- A worldwide 24/7 service network
- Cost-effective spare parts management
- On-board training



MTU Friedrichshafen GmbH | MTU Asia Pte Ltd | MTU America Inc.  
Part of the Rolls-Royce Group

[www.mtu-online.com](http://www.mtu-online.com)