

Wärtsilä 14



The Wärtsilä 14 is the most compact engine in its power range in the marine market, and serves both propulsion and auxiliary genset applications in the global marine and offshore markets. The engine is an integral element within Wärtsilä's Smart Marine vision for the future of shipping, whereby optimal efficiency, safety, and environmental sustainability will be the key pillars in achieving and maintaining profitable operations for ship owners and operators around the world.

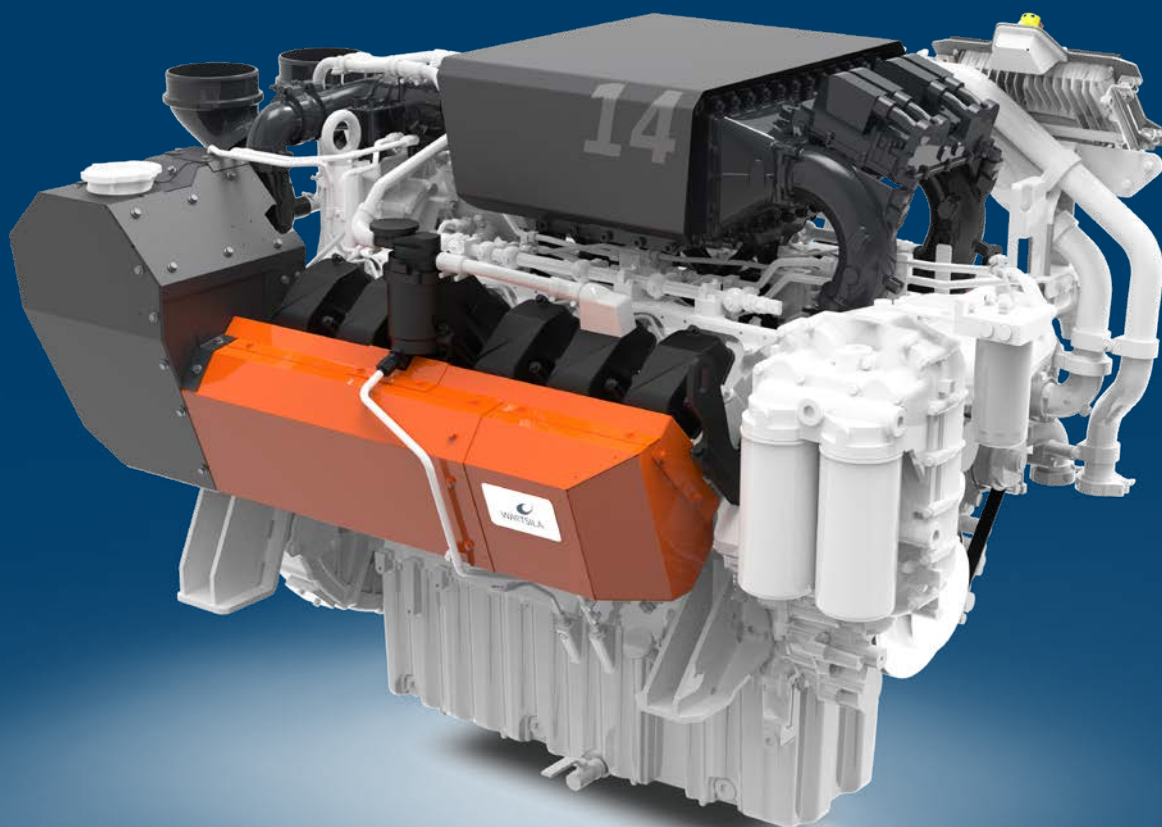
The Wärtsilä 14 high-speed engine is produced in 12- and 16-cylinder configurations, having a power output between 755 and 1340 kWm in mechanical propulsion, and between 675 and 1155 kW_e in auxiliary generating set and diesel-electric propulsion applications.

The compact package of the Wärtsilä 14 meets the customer, segment and vessel requirements where operating power, fuel type and power to weight ratio are critical.

The Wärtsilä 14 is equipped with UNIC automation modules for monitoring and safety purposes.

Wärtsilä 14

Cylinder configuration	12V	16V
Nominal power (kW _m)	755–1005	1005–1340
Nominal power (kW _e)	675–865	900–1155
Nominal speed (rpm)	1500–1900	1500–1900
Bore (mm)	135	135
Stroke (mm)	157	157
Engine displacement (L)	27	36





Wärtsilä HY Tug 40

The Wärtsilä HY Tug 40 concept is designed for shallow draft operation, and features two Wärtsilä 14 engines and a hybrid propulsion solution to deliver different and flexible operating modes including zero emission mode and low operating and maintenance costs. It also complies with global environmental regulations, including an option for compliance to IMO Tier III with a Wärtsilä NO_x reduction (NOR) system installed.

Propulsion packages

Together with the Wärtsilä 14 engine, Wärtsilä offers a broad range of products, systems and integrated solutions, including ship machinery, propulsion equipment – gears, propellers, thrusters and waterjets – and control systems for different types of marine vessel applications.

The benefits of integrated packages include:

- In-house design, manufacturing, and project management
- Matching components and an integrated design to ensure functionality and efficiency
- Easy installation and commissioning
- Simple mechanical and automation interfaces to shipyard systems.

IMO Tier III compliancy

The Wärtsilä 14 is supplied with the Wärtsilä NO_x reducer (Wärtsilä NOR[®]), an emissions after-treatment system based on selective catalytic reduction (SCR) technology for reducing nitrogen oxide (NO_x) emissions.

The Wärtsilä NOR:

- is optimised for the Wärtsilä 14 engine in terms of reliability, flexibility, and

size while supporting easy installation and maintenance.

- maximises overall performance of the engine and exhaust gas cleaning system in terms of emissions reduction, noise abatement, and engine efficiency.
- provided together with IMO Tier III EIAPP certificates for a complete engine and SCR package.

The Wärtsilä – Liebherr relationship

This new engine has been developed in collaboration with Liebherr, a leading global manufacturer of machinery and components. The two companies have agreed to cooperate on a long-term basis in the research and development of high-speed engines for maritime and offshore applications, and post R&D exploitation of the results of the parties' R&D efforts. These engines have been developed

for heavy duty applications and for operation under harsh environmental conditions. They are, therefore, a perfect fit for marine and offshore applications.

Lifecycle support

Wärtsilä Services will support you throughout the lifecycle of your high-speed engine installation. We offer:

- A global network of approximately 11,000 professionals in 160 locations delivering services to more than 12,000 customers every year.
- The broadest portfolio of solutions and services in the industry, ranging from supplying spare parts to optimising customer operations and providing performance guarantees.
- A commitment to provide high quality, expert support, and to make our services available in the most environmentally sound way possible, whenever and wherever needed.



A newly developed configurator for selecting the right engine is available on Wärtsilä's webpages. This will help customers to find the product they need, while at the same time making it easy to be in direct contact with Wärtsilä's sales organisation through the tool.