

Wärtsilä methanol engines

| The power to achieve carbon neutrality

Wärtsilä's broad range of multi-fuel methanol engines give you the flexibility you need to make a gradual transition to cleaner alternative fuels when the time is right for you.

Wärtsilä's methanol engines are a powerful, flexible building block for your decarbonisation strategy. These reliable, efficient and fuel-flexible engines can run on a wide variety of liquid fuels including conventional fossil fuels, biofuels and green methanol.

The Wärtsilä MethanolPac fuel supply system incorporates everything you need for methanol supply. It includes low-pressure equipment such as a bunkering station, tank-related equipment, methanol process equipment, and a control and monitoring system, as well as high-pressure equipment such as a methanol fuel pump unit – tailored to your installation.

Key benefits

- Reliable, proven, fuel-flexible platforms for methanol adoption
- Efficient performance with a wide range of liquid fuels including biofuels
- Approximately 90% less CO₂ running on green methanol than conventional LFO, well to wake
- Significant reduction in sulphur and particulate emissions
- Retrofit options provide full flexibility for a tailored decarbonisation pathway
- IMO Tier II / Tier III compliant with Wärtsilä NOx Reducer (NOR)
- Integrated MethanolPac fuel supply system

Why methanol?

Methanol is emerging as a leading alternative-fuel candidate for vessel owners and operators because:

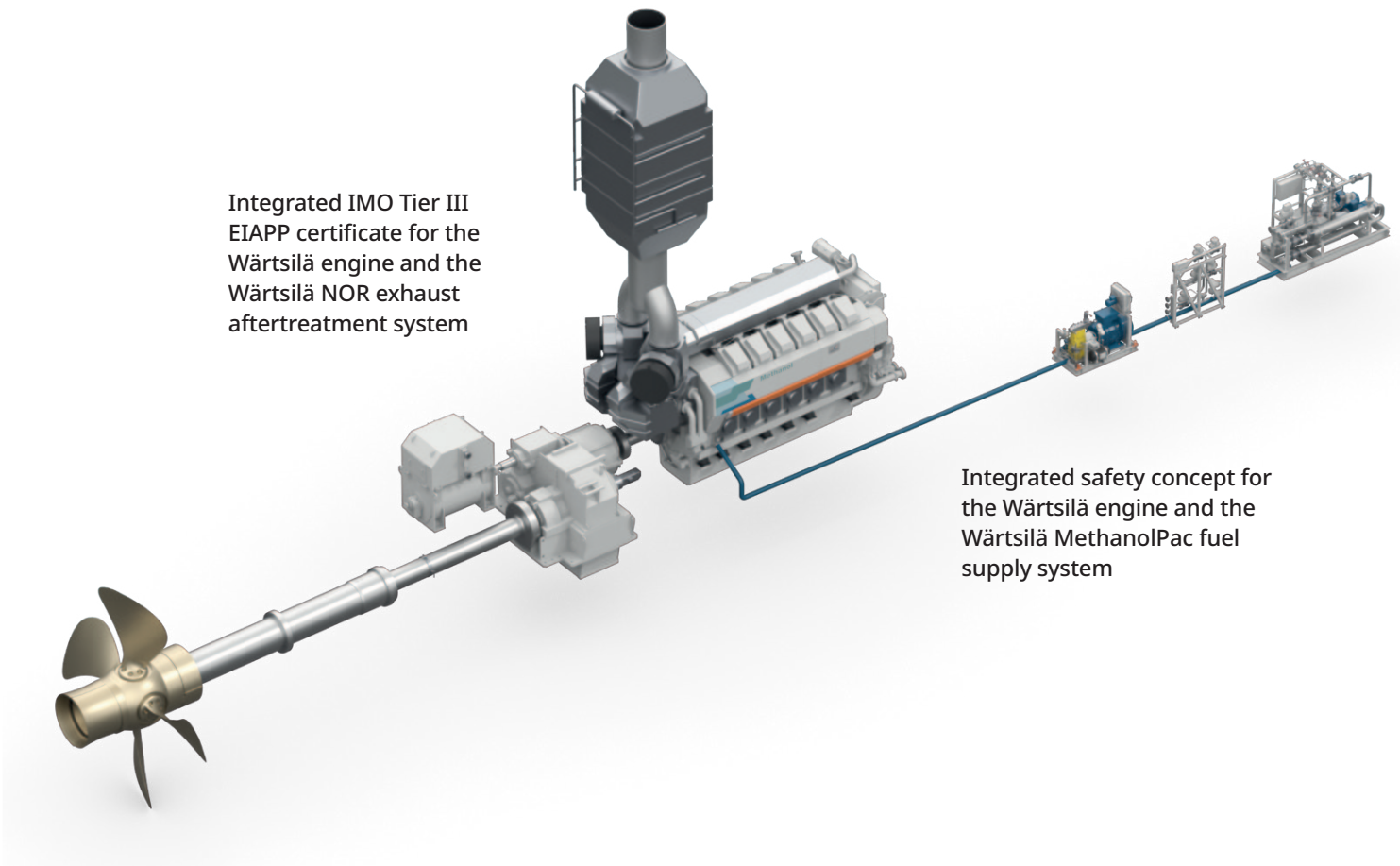
- it drastically reduces NOx, SOx and particulate emissions
- it is easy to store and handle onboard a ship
- there are storage and handling facilities close to most major ports

Green methanol is made from biomass or captured CO₂ and green hydrogen and is therefore carbon-neutral.

The world's first commercially available methanol solutions

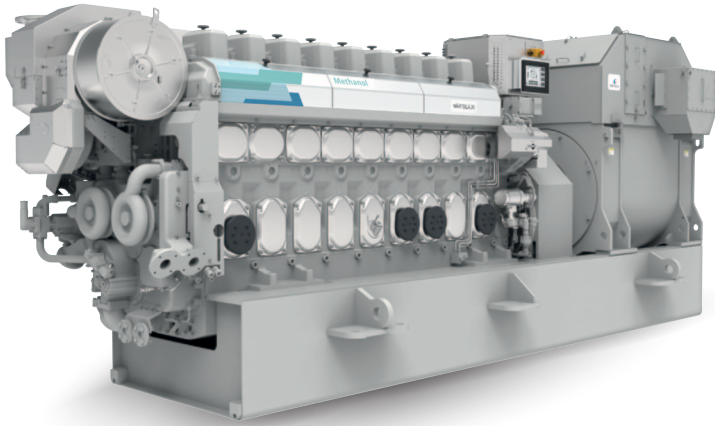
Launched in 2022, the Wärtsilä 32 Methanol engine and Wärtsilä MethanolPac storage and supply system were the first commercially available solutions for using methanol as a maritime fuel. The Wärtsilä 32 Methanol engine has type approval certificates from several leading classification societies.

Contact us today to learn more about Wärtsilä methanol engines and how they can help you achieve your decarbonisation goals.

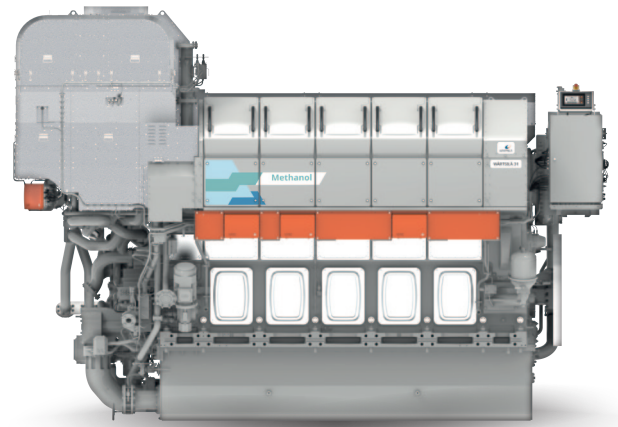


An example of a ship power solution

A mechanical drive system powered by a Wärtsilä methanol engine that is integrated with the Wärtsilä MethanolPac fuel supply system and the Wärtsilä NOx reducer.

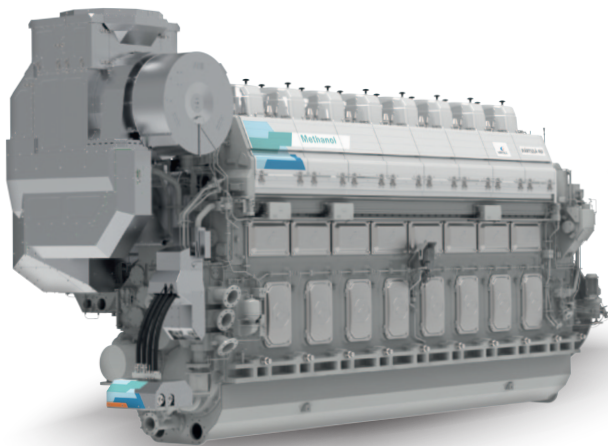


| Wärtsilä 20 Methanol

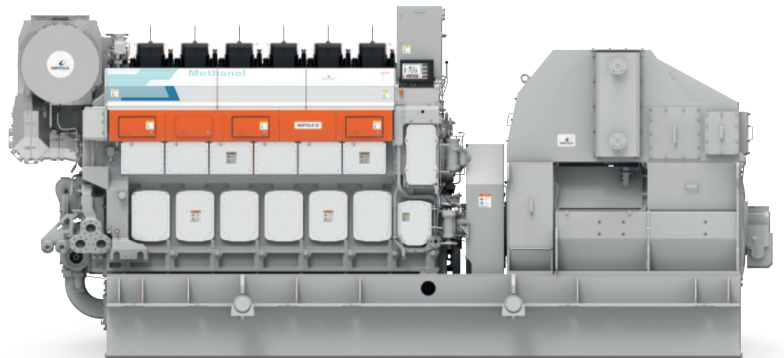


| Wärtsilä 31 Methanol

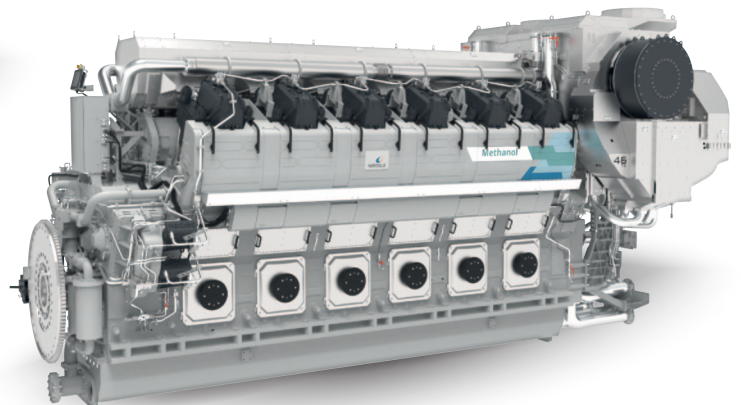
	Wärtsilä 20 Methanol	Wärtsilä 31 Methanol	Wärtsilä 32 Methanol	Wärtsilä 46F Methanol	Wärtsilä 46TS Methanol
Max. cylinder output (kW)	200	590 / 610	560 / 580	1 250	1 350
Cylinder configurations	4L, 6L, 8L, 9L	8V, 10V, 12V, 14V, 16V	6L, 7L, 8L, 9L	6L, 7L, 8L, 9L, 12V, 14V, 16V	6L, 7L, 8L, 9L, 12V, 14V, 16V
Bore (mm)	200	310	320	460	460
Stroke (mm)	280	430	400	580	580
Nominal speed (rpm)	1 000 / 1 200	720 / 750	720 / 750	600	600
Speed mode	Constant	Constant/Variable	Constant/Variable	Constant/Variable	Constant/Variable



| Wärtsilä 46F Methanol



| Wärtsilä 32 Methanol



| Wärtsilä 46TS Methanol

Wärtsilä Marine Power leads the industry in its journey towards a decarbonised and sustainable future.

Build your success on Wärtsilä's broad portfolio of engines, propulsion systems, hybrid technology and integrated powertrain systems. These building blocks offer you efficiency, reliability, safety and world-class environmental performance.

The offering includes performance-based agreements and lifecycle solutions as well as an unrivalled global network of maritime expertise.

www.wartsila.com/marine



Wärtsilä is a global leader in innovative technologies and lifecycle solutions for the marine and energy markets. We emphasise innovation in sustainable technology and services to help our customers continuously improve their environmental and economic performance.

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