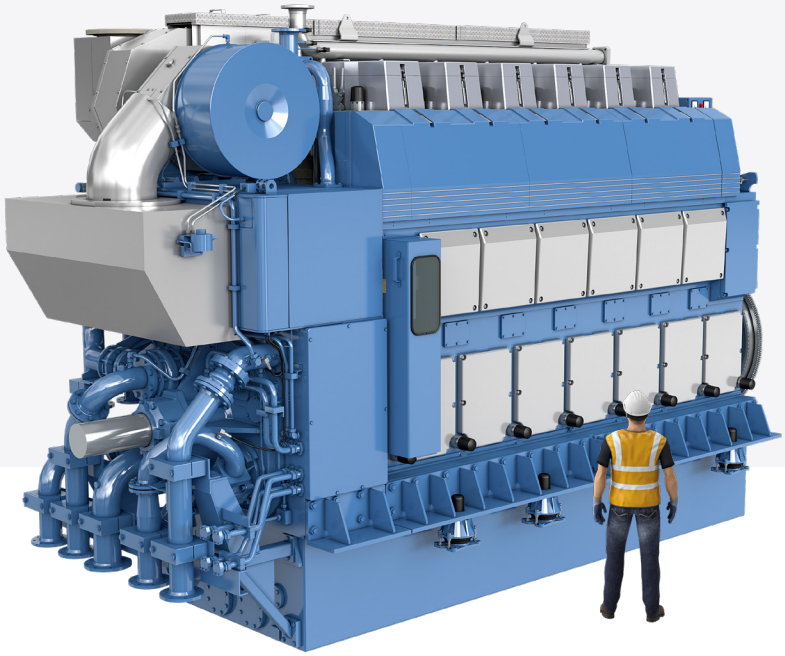
BERGEN ENGINES

ON LAND. AT SEA.

B33:45V

Propulsion
Liquid Fuel
7.2 MW



Power, Efficiency, and Reliability at Sea.

Developed in collaboration with shipbuilders, designers, and operators, the Bergen B33:45V delivers the performance and efficiency modern marine operations demand. With up to 600 kW per cylinder and a modular design, it reduces installation time, saves space, and lowers operating costs without compromising reliability. Advanced lean-burn combustion, rapid load responsiveness, and low vibration and noise ensure smooth, uninterrupted operation in both propulsion and auxiliary roles.

Meeting IMO Tier II emissions without aftertreatment and easily achieving Tier III with SCR, the B33:45V provides flexibility in a changing regulatory landscape. With service intervals of up to 25,000 hours and the support of Bergen's global service network, we offer long-term operational value and unmatched reliability for vessels worldwide.

Benefits of Bergen

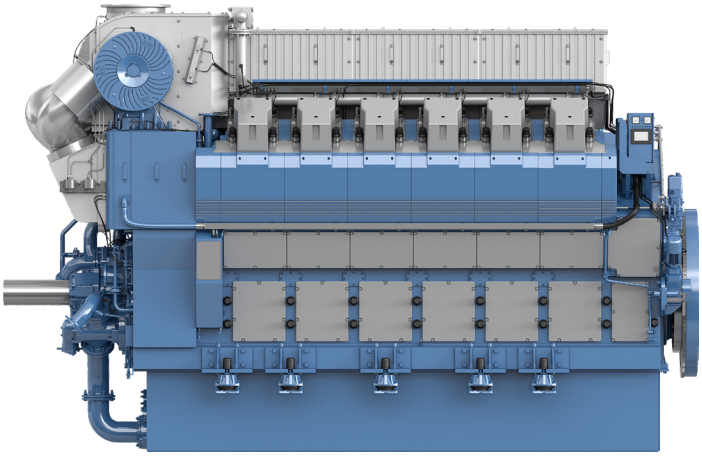
- **High Efficiency Single-fuel Design**
  Excellent fuel efficiency with lower complexity than dual-fuel engines.
- **Global Service & Support**
  Local teams provide fast, reliable service worldwide; modular, service-friendly design enables easier maintenance onboard.
- **Compact, High Power**
  High power per cylinder reduces the number of units, they fit efficiently in small engine rooms, and our modular design makes installation and maintenance faster and easier.
- **Proven Reliability**
  European/Norwegian engineering with high-quality components ensures long-lasting, dependable operation.
- **Fast Delivery**
  Average lead times of just 10-12 months accelerate projects and reduce downtime.

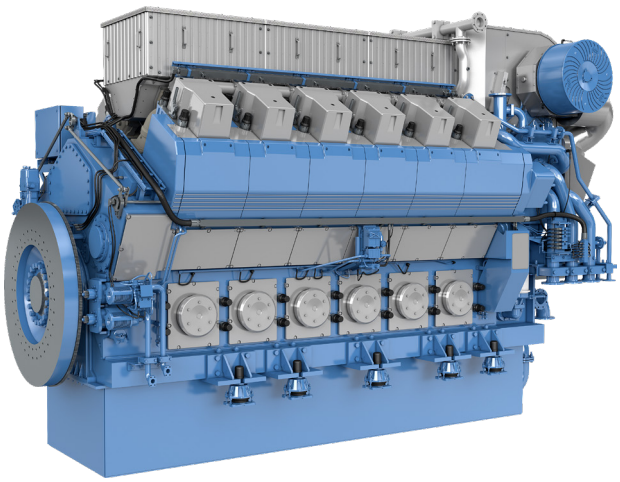
Product Range

Bergen B33:45V Propulsion Engine
Max. Cont Rating, kW

BERGEN ENGINES

ON LAND. AT SEA.





Weight & Dimensions

	Engine Length (mm)	Foundation Length (mm)	Engine Width (mm)	Engine Height (mm)	Engine Weight (dry, kg)	Total Weight (Running Condition, kg)
B33:45V12 P	6,960	5,365	3,280	4,590	71,867	75,517

Technical Data

	B33:45V12 P
Number of Cylinders	12
Cylinder Diameter (mm)	330
Piston Stroke (mm)	450
Engine Speed (r/min)	750
Mean Piston Speed (m/s)	11.2
Max. Cont Rating (MCR, kW)	**7,200**
Max. Cont Rating (MCR, BHP Metric)	9,790
Mean Effective Pressure (BMEP, bar)	24.94
Specific Lubricating Oil Consumption (g/kWh)	0.5
Specific Fuel Consumption (g/kWh)	173
Cooling Water Temp., Engine Outlet (°C)	90

GENERAL CONDITIONS

- *All technical data is valid for 100% load.*
- *Engine power definition is according to ISO 3046-1*
- *Specific fuel consumption is measured on testbed according to iso 3046-1, using diesel-oil with a net heating value of 42.7 MJ/kg and no engine driven pumps.*
- *Specific lub. Oil consumption is for guidance only.*
- *Due to continuous development, some data may change.*

DISCLAIMER

- *Due to continuous development, some data may change. The information does not carry any contractual value.*