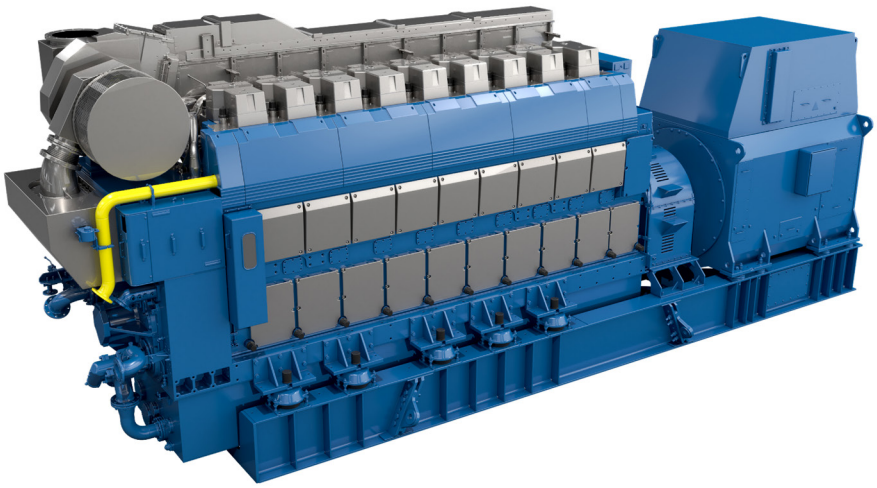
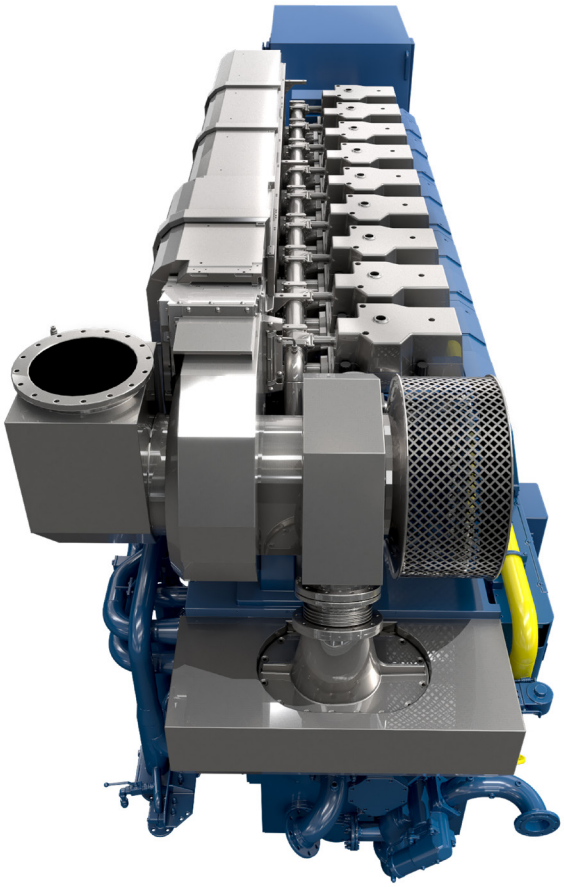
New B36:45L gas engine series

Your benefits

- Increased power per cylinder
- Reduced fuel consumption
- Reduced emissions
- World class efficiencies
- Modular and robust design
- Low lifecycle cost
- Excellent load responsiveness and grid balancing capability
- Minimum de-rating at high temperatures and elevations
- Convertable to liquid fuel operation
- Minimal noise and vibration levels





Defined by our customers

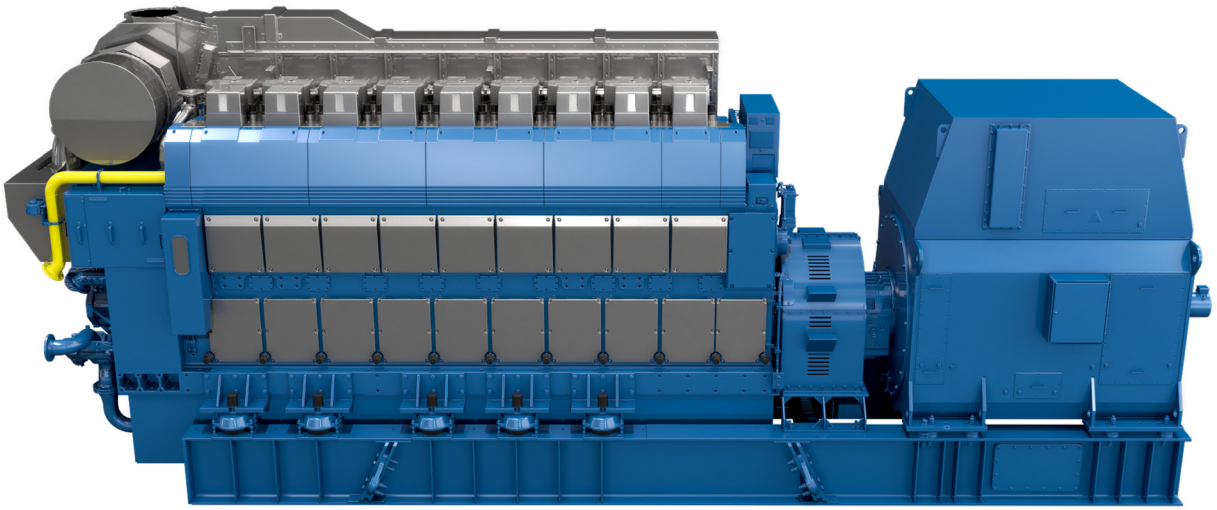
The new engine series is built on more than 70 years of experience. Our legacy, with all its valuable knowledge and experience, has been an important foundation for the development and testing of new technologies. Close dialogue with our customers and the service organisation has given valuable input to the development of more efficient solutions – both for the engine itself and maintenance. The result is a robust and powerful engine delivering 600kW per cylinder, with world class efficiency and reduced life-cycle costs.

The B36:45L gas engine is a medium-speed, spark-ignited lean-burn unit designed to produce up to 5.3 MW of electrical power giving customers more energy and greater cost-effectiveness than anything else of its type on the market. It is available in 6 and 9 cylinder versions. The design has been driven by stringent requirements for lower exhaust emissions, highest possible electrical and heat recovery efficiency coupled with extreme reliability.

The B-gas sets new standards both in power and efficiency in the 720-750rpm class. Decisive features are the enlarged cylinder volume and optimised combustion technology, which ensures class leading performance.

50 Hz

Performance data



Main dimensions - cylinder diameter 360 mm, piston stroke 450 mm

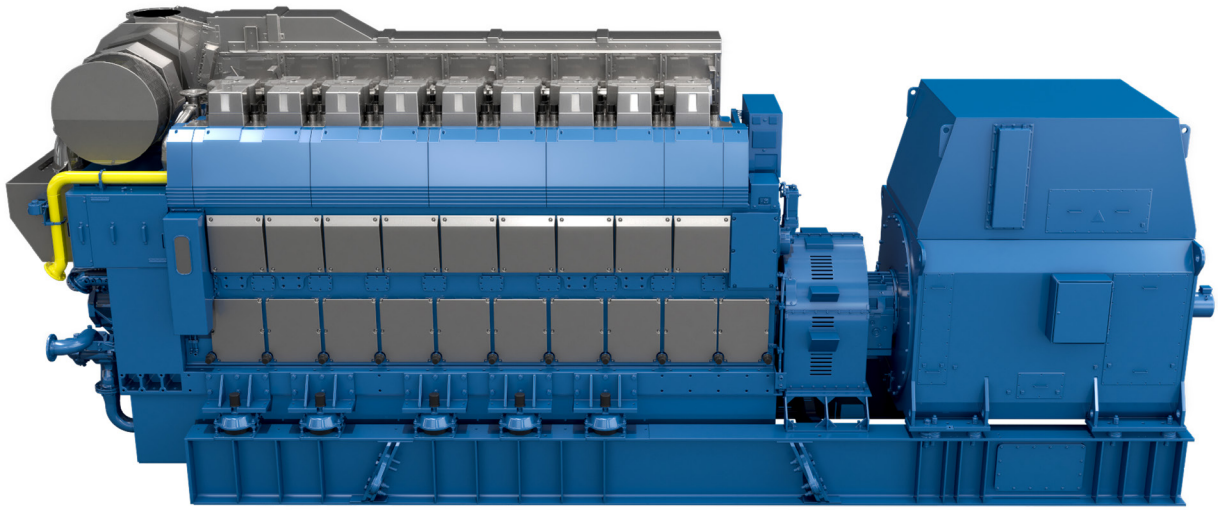
Engine type	Weight	Lenght	Width	Height
B36:45L9AG	93000	11000	3310	4560
B36:45L6AG	67000	9800	3310	4560

Technical data	Unit	B36:45L6AG	B36:45L9AG
Number of cylinders	no	6	9
Engine speed	rpm	750	750
Electrical output	kW	3520	5290
Charge air cooler HT	kW	810	1215
Charge air cooler LT	kW	225	335
Lube oil cooler	KW	355	535
Jacket water cooler	kW	450	680
Exhaust mass	kg/h	18800	28200
Exhaust gas temperature	°C	375	375
Specific lube oil consumption	g/kWh	0.4	0.4
Nominal EL efficiency	%	48.3	48.4

- Depending on type of generator the weight, performance and dimensions may change
- All technical data is valid at 100% load, including two engine driven pumps (lube oil and jacket water)
- Engine power definition is according to ISO 3046-1 (ICFN)
- Generator standard IEC 60034-1, power factor 1
- Reference fuel is natural gas with a lower heating value of 36MJ/nm3, methane number >80
- Minimum fuel gas pressure to the gas regulating module: 5.3 barg
- Due to continuous development some data may change

60 Hz

Performance data



Main dimensions - cylinder diameter 360 mm, piston stroke 450 mm

Engine type	Weight	Lenght	Width	Height
B36:45L9AG	93000	11000	3310	4560
B36:45L6AG	67000	9800	3310	4560

Technical data	Unit	B36:45L6AG	B36:45L9AG
Number of cylinders	no	6	9
Engine speed	rpm	720	720
Electrical output	kW	3370	5070
Charge air cooler HT	kW	720	1080
Charge air cooler LT	kW	220	320
Lube oil cooler	KW	400	610
Jacket water cooler	kW	480	720
Exhaust mass	kg/h	18500	27700
Exhaust gas temperature	°C	375	375
Specific lube oil consumption	g/kWh	0.4	0.4
Nominal EL efficiency	%	48.2	48.4

- Depending on type of generator the weight, performance and dimensions may change
- All technical data is valid at 100% load, including two engine driven pumps (lube oil and jacket water)
- Engine power definition is according to ISO 3046-1 (ICFN)
- Generator standard IEC 60034-1, power factor 1
- Reference fuel is natural gas with a lower heating value of 36MJ/nm3, methane number >80
- Minimum fuel gas pressure to the gas regulating module: 5.3 barg
- Due to continuous development some data may change