MAN B&W G-Engines

A perfect partner for large ships

MAN B&W G-Engines
Green ultra long stroke engines

MAN B&W G-type engine benefits

• Longer stroke reduces the engine speed, facilitating ship designs with higher efficiency
• Follows the market trend for fuel optimisation
• Delivers power with significant fuel savings and CO₂ emission reduction
• Enables vessels to be fitted with larger and more efficient propellers
• Equipped with the latest MAN B&W technologies including auto-tuning, Alpha lubricator and fully integrated electronic controls.

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MAN Diesel & Turbo – a member of the MAN Group
MAN B&W G-Engines

The new generation of optimised engines

The G-type engine has a design that follows the principles of the large bore (“S-type”) Mk 9 engine series introduced in 2006. The G-type is designed with an even longer stroke to reduce engine speed, and thereby paving the way for ship designs with unprecedented efficiency. MAN Diesel & Turbo follows the development in the shipping market closely and has kept an eye on the trend towards fuel optimisation in recent years. The company has experienced great interest in the G-type engine from our customers, which has resulted in the development of a complete engine programme in the G-series from 50 to 80 burs.

In recent years, larger container vessels have also been specified with G-type engines because of the opportunity they offer to employ large propeller diameters.

Rationale for G-type introduction

Tanker and bulkers have traditionally used MAN B&W S-type engines with their long stroke and low engine speed as prime movers, while larger container vessels have tended to use the K-type engines with their higher engine speed.

Example of savings in operating costs

Increased Propeller 4.4%
+ Extra cylinder for derating 2.1%
Total 6.5%

See also the lower diagram on the right-hand page.