
Press release

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MAN to Deliver Propulsion Solution for LNG-Fuelled ME-GI Containerships

MAN Energy Solutions has won the order to provide the propulsion systems for 2 x 2,525-teu containership newbuildings, which will join the fleet of Pasha Hawaii, the U.S. Jones Act carrier in the Hawaii trade lane. Each system will comprise a 7S80ME-GI Mk 9.5 main engine, 3 x MAN 6L35/44DF GenSets and an MAN Alpha FPP propeller system. The vessels will be constructed at the Keppel AmFELS yard in Brownsville, Texas to Keppel's proprietary design.

Bjarne Foldager – Vice President, Sales & Promotion, Two-Stroke Business at MAN Energy Solutions – said: “With some 200 engines on order or already in service, the ME-GI’s popularity continues to grow. This is yet another order within the container segment and cements the ME-GI concept. More so, the project at hand shows how our customers pick up on offers of complete propulsion systems beyond just the main engine. This confirms our strategic path to develop into a system provider.”

Doosan Engine will build the main engines in Korea, which will meet Tier III emission standards by use of an Exhaust Gas Recirculation system. Similarly, MAN Energy Solutions Augsburg works will build the auxiliary engines which will meet Tier III with the aid of a Selective Catalytic Reduction system. Engine delivery is scheduled for 2019 with the two vessels, respectively, due for launch in Q1 and Q3 of 2020.

Pasha Hawaii is based in Honolulu, Hawaii and provides shipping services between Hawaii and the US mainland. The company reports that the new vessels joining its fleet will have a sailing speed of 23.0 knots and that the ships’ hulls have been fully optimised using computational fluid dynamics to be among the most hydrodynamically efficient in the world.

The new vessels will operate fully on LNG from day one in service, dramatically reducing environmental impact and increasing fuel efficiency. Energy savings will also be achieved with a state-of-the-art engine, an optimised hull form, and an underwater propulsion system with a high-efficiency rudder and propeller.

When compared to conventional fuels, LNG is a much cleaner alternative fuel for shipping and offers significant environmental benefits, including the reduction of up to 95% in sulphur oxides, nearly 100% of all particulate matter, up to 90% of nitrogen oxides, and up to 25% of carbon dioxide emissions from engine exhausts.

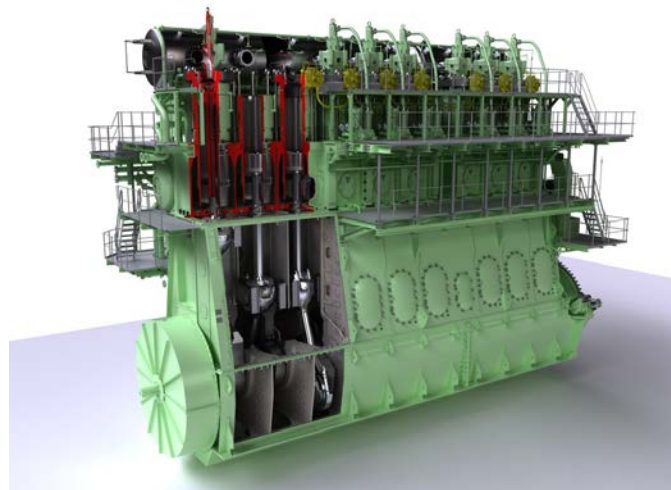
The ME-GI engine – the new industrial standard

MAN Energy Solutions successful ME-GI (-Gas Injection) engine, with over 200 engines ordered, has set a new industrial standard for two-stroke propulsion engines aboard – among others – LNG carriers, container vessels, car carriers and bulk carriers. The ME-GI engine provides ship-owners and operators with a peerless solution within environmentally friendly and high-efficiency, two-stroke technology, without the greenhouse emissions such as methane slip, which is a hallmark of competing engines.

With the ME-GI engine, two-stroke development has taken a step further by combining the unique properties of multi-fuel combustion and the well-known reliability of MAN Energy Solutions ME-engine. The Diesel principle provides the ME-GI engine with high operational stability and efficiency, including during load changes and fuel change-over, while defining properties such as a stable change-over from fuel to gas with no fuel-penalties are maintained. The ME-GI engine is the most environmentally friendly, technology available within the two-stroke engine segment.

About Pasha Hawaii

Pasha Hawaii, an independent operating subsidiary of The Pasha Group, is one of the nation's leading domestic ocean shipping companies serving Hawaii from the continental United States. The company owns a fleet of six fully Jones Act-qualified vessels and operates out of multiple port terminals. Pasha Hawaii is a trusted partner for many of the nation's leading retailers, manufacturers and U.S. government agencies, providing reliable containerized and roll-on/roll-off cargo services that leverage its unique combination of ocean transportation and inland distribution capabilities to deliver goods that are vital to the people of the State of Hawaii and the prosperity of the Hawaii market Pasha Hawaii serves.



The ME-GI engine has won some 200 or so orders since its introduction to the market. Pictured here, the 9S90ME-GI type



Rendering of the new Pasha Hawaii containership (picture courtesy Pasha Hawaii)

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.