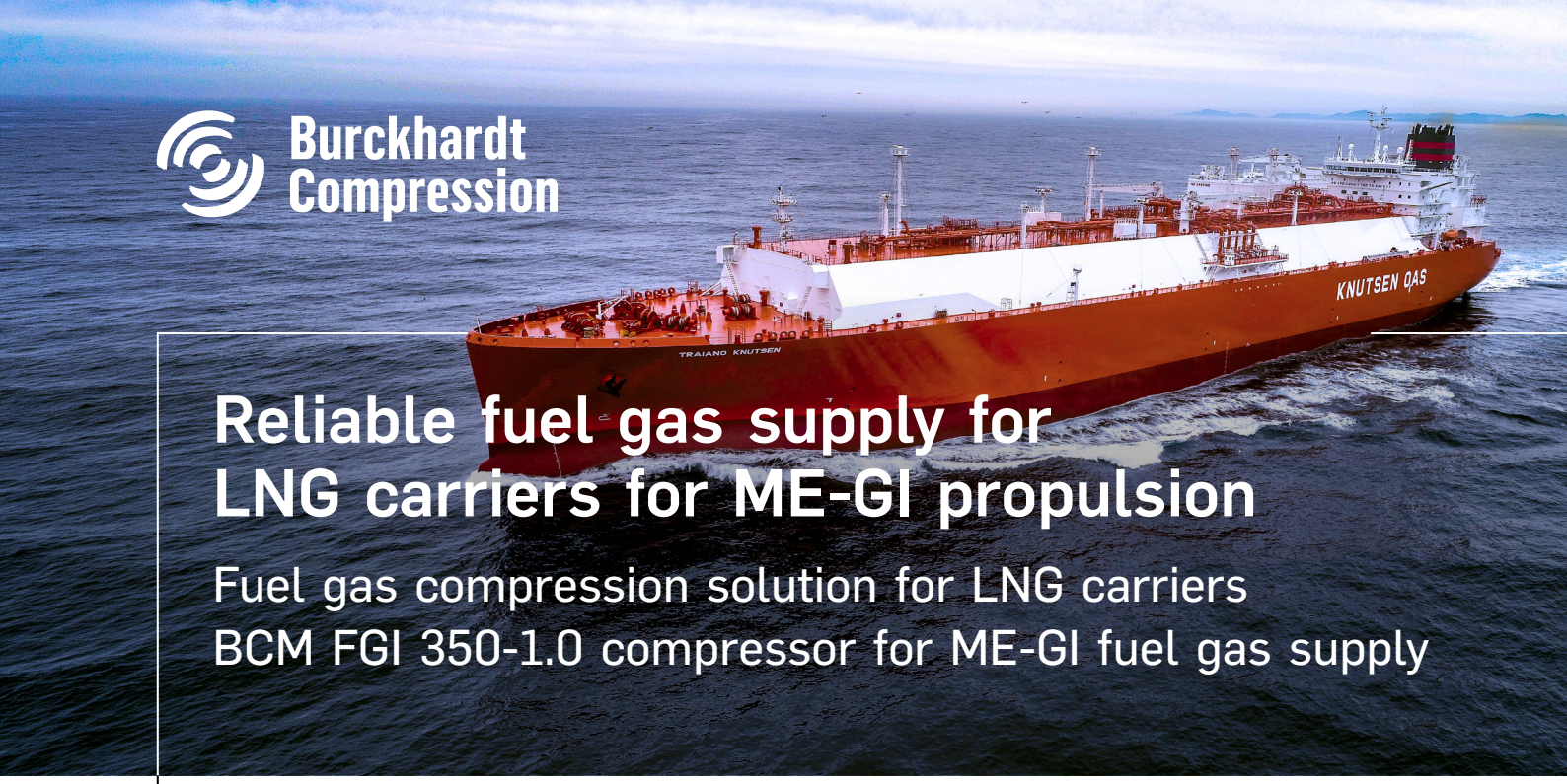


Burckhardt Compression

Reliable fuel gas supply for LNG carriers for ME-GI propulsion

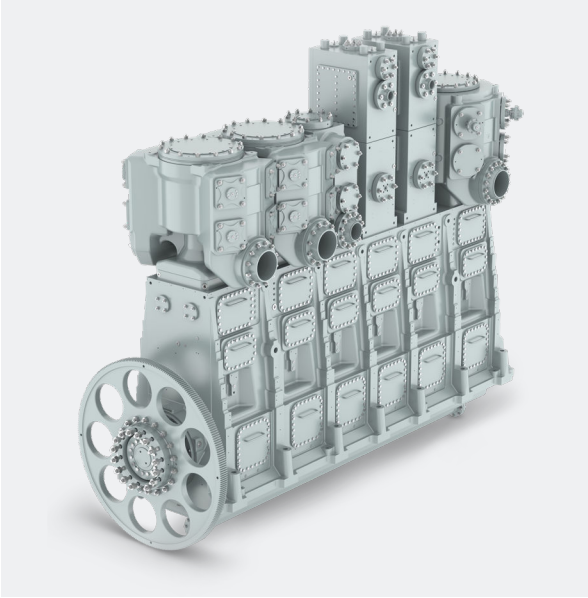
Fuel gas compression solution for LNG carriers
BCM FGI 350-1.0 compressor for ME-GI fuel gas supply

Modern LNG carriers operating with high-pressure ME-GI propulsion require a reliable and efficient fuel gas supply. The BCM FGI 350-1.0 is optimized for 170k–200k cbm LNG carriers and supports low boil-off rate cargo containment systems, ensuring stable performance across demanding operating conditions.

By compressing boil-off gas up to 330 bar, the BCM FGI 350-1.0 enables high efficiency operation with reduced methane slip. Its oil-free, dry-running design, fully balanced mechanics and gas-tight construction ensure clean, low-emission performance while reducing wear, maintenance effort and lifecycle costs.

Customer benefits

- Optimized for LNG carriers with low boil-off rate systems, enabling efficient gas utilization
- Reliable high-pressure fuel gas supply up to 330 bar for stable ME-GI engine operation
- Supports high efficiency operation with reduced methane slip
- Oil-free, dry-running compression ensures clean gas and operational reliability
- Fully balanced design minimizes vibration and mechanical stress on ship structures
- Gas-tight sealing system reduces emissions and prevents fugitive gas losses
- Flexible operation supports engines, gensets and reliquefaction systems
- Stable performance across wide operating conditions ensures consistent efficiency



Product family	BCM FGI 350-1.0
LNG carrier size	170k – 200k cbm
Cargo containment system BOR	0.085%
Suction pressure	0.02 – 0.2 barg
Suction temperature	-160°C – +45°C
Discharge pressure	330 barg

Available models[1]	6LP165E – 5C57	6LP165E-1.0 – 5C51
Cargo handling system configuration	Partial reliquefaction (high-pressure, Joule-Thomson)	Full reliquefaction (e.g. mixed refrigerant, reverse Brayton cycle)
Capacity[2]	3'700 kg/h @ 0°C 3'400 kg/h @ +40°C	4'000 kg/h @ -90°C 3'500 kg/h @ -60°C
Motor power	1'550 kW	1'470 kW
Shaft power LADEN	1'285 kW @ 0°C 1'215 kW @ +40°C	1'250 kW @ -90°C 1'150 kW @ -60°C

[1] Different configurations and capacities available as per request
[2] Suction pressure 0.1 barg, gas composition 90% CH_4 10% N_2

Burckhardt Compression AG
Franz-Burckhardt-Strasse 5
8404 Winterthur, Switzerland
Tel.: +41 52 261 55 00
info@burckhardtcompression.com
www.burckhardtcompression.com

Reliable fuel gas supply for LNG carriers for ME-GI propulsion
07/2026 – All content is subject to change without notice.