ANGLO BELGIAN CORPORATION

We power your future

POWERED BY METHANOL®

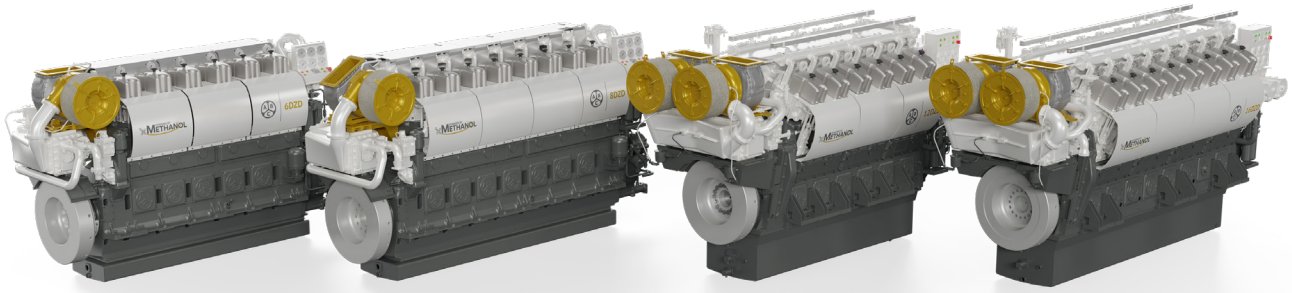
## Carbon neutrality through simplicity

# Discover ABC's dual fuel methanol engines

**ABC is thrilled to announce that it has developed an extended range of dual fuel methanol engines. These medium-speed DZ DF MeOH engines, based on the DZ engine family, develop up to 3,536 kW (4,810 HP) and are highly suitable for heavy-duty applications. They also help our business partners towards future-proof fuels.**

Renewable methanol is today regarded as an important alternative fuel for defossilisation in heavy-duty applications such as shipping, power generation or rail freight transport. Methanol, when made from renewable energy, is $CO_2$ neutral and offers several interesting benefits that can help our customers on their way to significantly reducing their $CO_2$ emissions.

With the DZ DF MeOH engine range, ABC launches a completely new range of medium-speed dual fuel methanol engines. The range consists of 6- and 8-cylinder inline engines and 12- and 16-cylinder V-engines covering a power range between 955 kW (1,300 hp) and 3.5 MW (4,810 hp).



| 6DZ DF MeOH | 8DZ DF MeOH | 12VDZ DF MeOH | 16VDZ DF MeOH |
|---|---|---|---|
| MCR 1,362 kW | MCR 1,768 kW | MCR 2,652 kW | MCR 3,536 kW |

Depending on the operational profile and load, a ratio of up to 70% methanol and 30% conventional fuel or biofuel can be achieved. These are energetic ratios, so up to 70% of the energy comes from the methanol. An additional advantage of these dual fuel engines is that the operator can effortlessly switch to 100% conventional fuel or biofuel when methanol is not available. The switchover can also be done automatically and even under load without any loss of power. This ensures easy operation of the propulsion system and maximum vessel uptime.

Thus, with the DZ DF MeOH engines, $CO_2$ emissions are greatly reduced. Combined with an exhaust after-treatment system (EATS), the remaining soot particles and nitrogen gases (NOx) are eliminated by a particulate filter and SCR/oxicat system so that the strictest emission standards are achieved. And when biodiesel or HVO is used to replace conventional fuel, $CO_2$ emissions are even more reduced.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More than 110 years of international experience in engine manufacturing provides exceptional expertise and competence. Durability, reliability and simplicity of design have long been some of ABC's goals.

ABC's dual fuel methanol engines therefore offer some key advantages:

### In-house development

The DZ DF MeOH engines were fully developed in-house, use proven technology and have been extensively tested to ensure long-term and efficient operation.

### Safe, dual fuel MeOH fuel system

The dual fuel methanol engines use a double-walled methanol fuel system that eliminates the risk of leakage. This makes these engines compliant with the IGF code. However, it remains a necessity to comply with mandatory safety and installation regulations.

### Low-pressure fuel injection (< 10 bar)

Liquid methanol is injected at low pressure, via port injection (before the intake valves), into the combustion chamber. This safe system is less complex as high-pressure systems and is both much cheaper to purchase and maintain.

### Compact fuel preparation room

The use of liquid methanol injected at low pressure reduces the extent of fuel conditioning required. Consequently, the ATEX zone can be minimised, enabling more efficient use of available space and contributing to overall cost savings. The low-pressure methanol supply skid can be included within our scope of supply, providing clear allocation of responsibility and minimising interface complexity.

### Retrofit of existing ABC engines

It is possible to retrofit existing ABC engines, which operate with conventional fuel, to dual fuel methanol operation. For example, Port of Antwerp-Bruges, with the Methatug, has successfully converted an existing tugboat with two ABC engines to methanol propulsion. A world first! With this, Port of Antwerp-Bruges is taking another important step in the transition to a sustainable and $CO_2$ neutral port.

### ABC engines loved by world players

ABC's DZ DF MeOH engines are available today. So with this new type of engines, ABC is further pushing for innovation and sustainability within heavy-duty applications. And this does not go unnoticed. Already several global players active in various applications have ABC dual fuel methanol engines in operation. ABC's DZ DF MeOH engines provide a safe investment, and they help our customers towards a significant reduction of their fleet's $CO_2$ emissions.

**Are you looking for ways to reduce your carbon footprint?**

Our experienced sales engineers look forward to helping you with the motorisation of your new build or repowering project!





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