ARTEMIS
High Savings on Fuel

- Reduced costs by use of gas
- Fast return of invest
- Advanced technology for high conversion rates

- Reliable components ensure high availability
- For different sized high or low-speed engines
- Precise control in diesel mode as well as in gas mode
**ARTEMIS Benefits**

- Remarkable fuel cost savings by using gaseous fuel instead of diesel
- Reduction of emissions
- Easy installation and commissioning
- High reliability based on proven components
- Tailored for customers’ needs
- Technical support and service worldwide

**Cost Reduction with Dual-Fuel Conversion**

56% possible savings

Assumption: gas price 40% of diesel fuel price

**Convert your diesel engine to natural gas operation**

**ARTEMIS SYSTEM**

HEINZMANN’s ARTEMIS systems offer a wide range of application which consequently fit customer requirements (stationary or vehicle) and engine sizes. We offer both, full authority and gas control systems. Besides control of gas flow, all ARTEMIS systems limit the maximum exhaust temperature via a temperature sensor for engine protection. The systems differ in being based on gas mixer or gas admission valve technology (single-point or multi-point). Speed/load control is either realised by a diesel or gas regulation.

The HEINZMANN team will help the customer to find a tailor-made solution to fit individual needs.

**Features**

- Applicable for diesel engines to be converted into dual/pilot-fuel engines
- Separate governor settings for diesel, gas and transfer mode
- Advanced diesel-gas mode transfer sequences
- Automatic mode selection depending on current conditions
- Automatic switch to diesel mode operation if gas supply fails

**Optional features**

- Misfire detection
- Knock control
- Complete gas train with pressure regulator
- Generator management

**MUCH MORE THAN FUEL COST SAVINGS**

- Halve your fuel costs
- Benefit from low natural gas prices
- High conversion ratio up to 95%
- Optimised system efficiency in gas operation

- Be flexible
- Choose your fuel at any time according to availability

- Go green
- Lower pollution to meet latest emission standards

- Feel safe
- Comprehensive monitoring and protection functionalities
- Reliable and proven operating concept
- Automatic system operation including fallback to diesel

- Lean back
- Application-tailored and type-approved turnkey solutions
- Easy and extensible integration of modular components
- Full engine performance, full lifetime service
- Maintenance-free system components
ARTEMIS Dual-Fuel Systems are based on HEINZMANN's proven gas engine components, its powerful actuation and governing units. They assure perfect gas-air mixture quality and achieve the optimal diesel substitution rate.

Operating dual-fuel engines up to 6,000 kW output, the gas controlled and gas mixer based systems are suitable for stationary applications as well as heavy duty vehicles.

The multi-point gas admission version of the ARTEMIS Dual-Fuel System incorporates a dual-fuel ECU, gas admission valves and an adjustable valve timing EFI controller. Like all ARTEMIS systems it is based on HEINZMANN's proven gas engine components, its powerful actuation and governing units. Its single port injection achieves best possible load response while the risk of gas loss or backfiring due to valve overlapping is avoided due to precise gas admission timing.

Operating dual-fuel engines of up to 20 MW, these ARTEMIS systems are suitable for retrofitting large diesel engine applications.

- High conversion ratio
- Low investment costs
- Control strategies for diesel and gas
- Unlimited diesel operation at any time

- Sophisticated safety and engine monitoring strategies
- Throttle valve with integrated positioner for soft switching to dual-fuel mode and for precise control of gas flow
- Maximum conversion ratio
- Improved engine response
- Cylinder to cylinder gas balancing
- Reduced risk of backfire

- Separate governor settings for diesel, gas and transfer mode
- Automatic mode selection, automatic switch if gas supply fails
The HEINZMANN Group operates numerous global subsidiaries, including eight production sites and an international distributor network.

Our product portfolio comprises engine management system solutions, as well as exhaust gas aftertreatment solutions, for industrial combustion engines and turbines. It also encompasses automation systems, primarily for the shipping industry.

Further representations: www.heinzmann.com/representations