

**S.E.M.T. Pielstick**



# Electronic Fuel Injection

**Retrofit**

## Enhance Naval Efficiency with Electronic Fuel Injection retrofit

Upgrade your fleet's engines with our cutting-edge electronic fuel injection retrofit system. Achieve superior fuel efficiency, smoother operations, and reduced emissions, ensuring your vessels perform at their peak while maintaining reliability and power.

### Engines

The system is designed for the S.E.M.T. Pielstick PA6 and PA6B propulsion engines.

**Everllence**

**PrimeServ**

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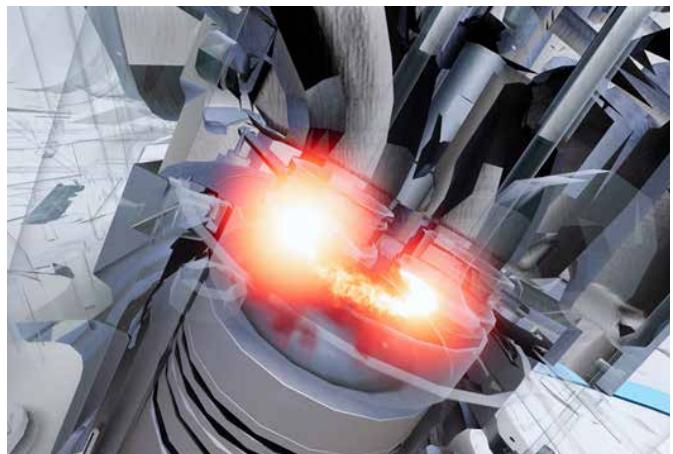
Retrofit

## Description

The Electronic Fuel Injection system uses sensors and electronic control unit to precisely control the timing and the quantity of the fuel injection into every cylinder of the engine, based on various inputs such as engine speed, load, and temperature.

## Benefits

- The accurate duration and timing of the injection generate a perfect combustion with a lower consumption of fuels
- This generates fuel savings, and reduces vibration, noise levels and soot



## Main features

Accurate injection of fuel per cylinder according to variable and prompt changes of loads.

## Fuel atomization spray

The specially designed injection nozzle, with its multiple precision-engineered holes, emits an atomization spray that creates a fine mist of fuel droplets, ensuring optimal fuel-air mixture for efficient combustion and reduced fuel consumption.

The integrated diagnostic system continuously monitors engine parameters, allowing real-time adjustments of the fuel injection, optimizing performance and ensures peak efficiency.

## Specifications

To turn from the mechanical fuel injection to an electronic fuel injection of your Pielstick engine, the retrofit consists on a limited scope of modifications:

- The removal of components, such as fuel rack governor, high pressure pipes, fuel injection pump
- The addition of some components such as SaCos injection wheel and related electronic control panel, electronic injection pump, specific injection valve
- The modification of the existing lube oil system of the injection pump.

The complete retrofit, as an easy installation means a retrofit duration of 5 to 7 days.

## Advantages

- Enhancement of volumetric efficiency of the engine
- Direct fuel injection into the cylinder eliminates manifold wetting
- Atomization of fuel even at low speed as atomization is independent of cranking speed
- Less knocking because of the improved atomization and vaporization

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