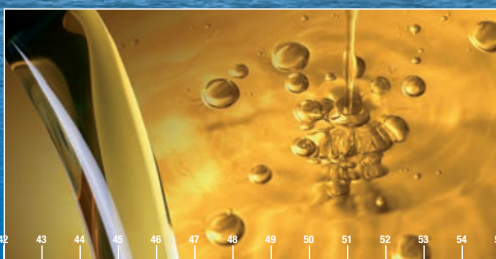


Homogenizer

Better combustion, less maintenance



Features

- Continuous homogenizing by shearing of asphaltene clusters
- Pure mechanical and no chemical treatment
- Continuous generation of water in fuel emulsion
- Sludge treatment on board

Benefits

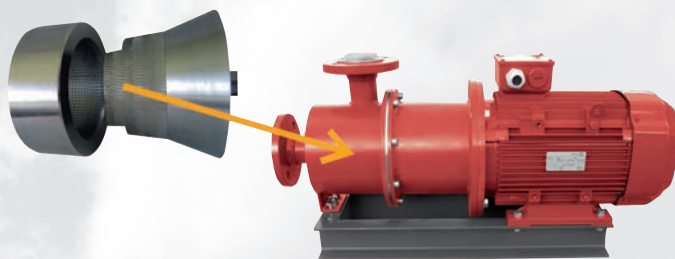
- Reduction of sludge
- Increases amount of burnable fuel
- Less wear and tear on engine components
- Individual optimization of combustion process



System description

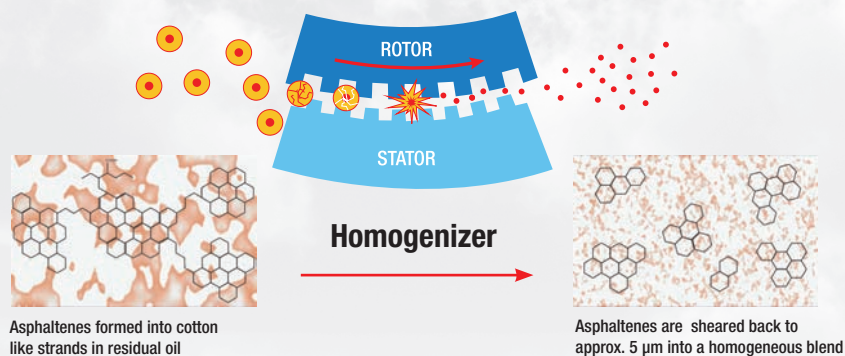
The homogenizer is a dynamic milling machine and it mainly consists of a specially constructed stator / rotor-milling gear to improve the fuel quality as well as to allow sludge treatment on board of sea-going vessels.

- Pure mechanical homogenizing
- Free adjustable clearance between rotor and stator
- Creates long term stable fuel-water emulsion
- Low maintenance



Principle

The Homogenizer operates on the principles of mechanical shearing and ultrasonic forces. It utilizes a special conical shaped milling gear, to generate high hydrodynamic power consisting of shearing, friction and acceleration forces with pressure waves of high frequency. The high molecular asphaltenes are reduced in their size to below 5 µm and homogenized into the heavy fuel oil.



Specification and ordering information

Power supply		400/440 V; 50/60 Hz	
Working pressure		max. 15 bar	
Working temperature		max. 150 °C	
Size / Type	Capacity IF0380 at 130°C (~13cSt) [m³/h]	Flange (in- /out-let) DIN/ISO 2633 [mm; bar]	Art. No.
Homogenizer HG100	3.0	DN 32; PN 16	94709
Homogenizer HG130	8.0	DN 50; PN 16	94710
Homogenizer HG150	12.0	DN 65; PN 16	94711
Homogenizer HG220	25.0	DN 80; PN 16	94735

Optional control panel / Type	Art. No.
Control panel CP100	95191
Control panel CP130	94725
Control panel CP150	94726
Control panel CP220	94734

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