

# HOMOGENIZER SYSTEM

## FUEL TREATMENT SYSTEMS

### OPTIMIZE YOUR COMBUSTION

With fuel oil often accounting for more than 40% of a vessels operation costs, efficient combustion is of crucial importance. Furthermore, fuel oil quality can have serious long term implications for engine wear and it's associated costs.

The Homogenizer has been specifically designed to solve the uniformity problems ship owners and operators face when running on heavy fuel oil. There is no better chemical-free approach for best treatment of heavy fuel oil, water-in-fuel-emulsion and sludge.

The equipment incorporates a hermetically sealed magnetic coupling drive and special hard material combination, suitable for very high pressure and temperature applications.



## Operational Principle

The Homogenizer operates on the principles of mechanical shearing and ultrasonic forces. It utilises 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, the existing cat-fines, remaining water etc. are homogenized into heavy fuel oil with maximum particle size of 5  $\mu\text{m}$ .

## Main Features

- » Reduction of fuel oil sludge
- » Increased burnable fuel amount with improved fuel efficiency
- » Improved combustion quality and reduced exhaust emissions
- » Reduced wear on engine components and reduced operational costs
- » For more info see Jowa Germany website [www.jowa.de](http://www.jowa.de)
- » Std - cap 5-8  $\text{m}^3/\text{h}$

