

SONIC CLEANING

The ship officers choice

Cost-efficient cleaning by sound for marine engine applications.

Sonic Cleaning offers financial and environmental benefits. In addition, the technique specifically prevents stack fires in exhaust gas boilers and the occurrence of soot flakes in the exhaust funnel.

Kockum Sonics has developed Sonic Cleaning products since early 70's. Kockum Sonics is unsurpassed in the variety of applications offered. The installations have been carried out in close co-operation with our customers and with solid support from our core knowledge in acoustics and long experience in process technology.

Our strength is your benefit!

Kockum Sonics – let us add value to your onboard operation

Sonic Cleaning

The basic principle of SONIC CLEANING is to create a sound wave with an energy level exceeding the forces that tend to make particles suspended in a gas flow to adhere to each other and surrounding surfaces, i.e. preventing build up by breaking up the particles before they form a hard layer.

The cleaning result is achieved by activating one or more sound emitters at intervals and frequencies to suit to the specific conditions in the exhaust funnel uptake.

INSONEX®

Kockum Sonics' INSONEX® for infrasound.

SONOFORCE®

Kockum Sonics' SONOFORCE® for audible sound.



Numerous applications

Sonic Cleaning from Kockum Sonics is a perfect tool to avoid trouble – and erosion-free cleaning of inner surfaces of the heating and boiler system.

Applications include:

- Main boilers
- Exhaust gas boilers
- Auxiliary oil heaters
- Catalytic reactors
- Economisers
- Incinerators

Many advantages

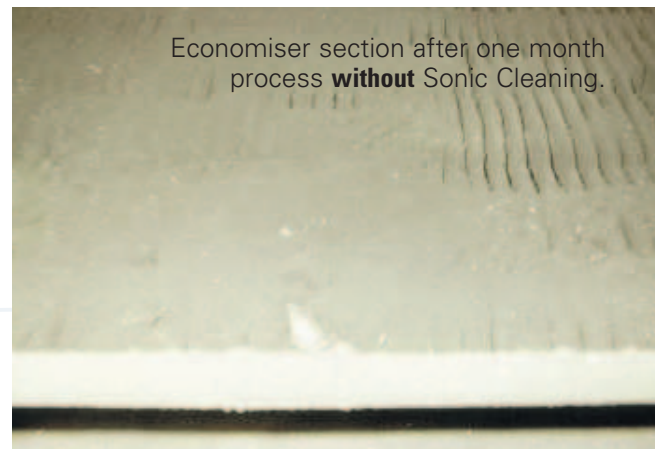
The choice of Sonic Cleaning offers many advantages. Sonic Cleaning is a very cost-effective method for keep internal surfaces clean.

- The favourable economy is evident in low investment costs.
- Using a continuous process for cleaning enhances more efficient heat exchange in the long term, which also results in better environmental characteristics.
- The method of sonic cleaning works continuously during host operation.
- The system will reduce/replace manual water washing
- Prevent stack fires
- Reduce smoke density peaks.
- Sonic cleaning also provides constant, lower back pressure for the turbo charger.

Furthermore, boiler tube lifetime is prolonged considerably since the system unlike steam soot blowers operates dry. The reduction of soot accumulation is also important, and means no soot flakes on deck.



Let Kockum Sonics add value to your system!



System layout

INSONEX® Control unit. Timer and frequency control with built-in interface, variable sound generation and pause time. Individual frequency setting for each Sonic Cleaning unit.

