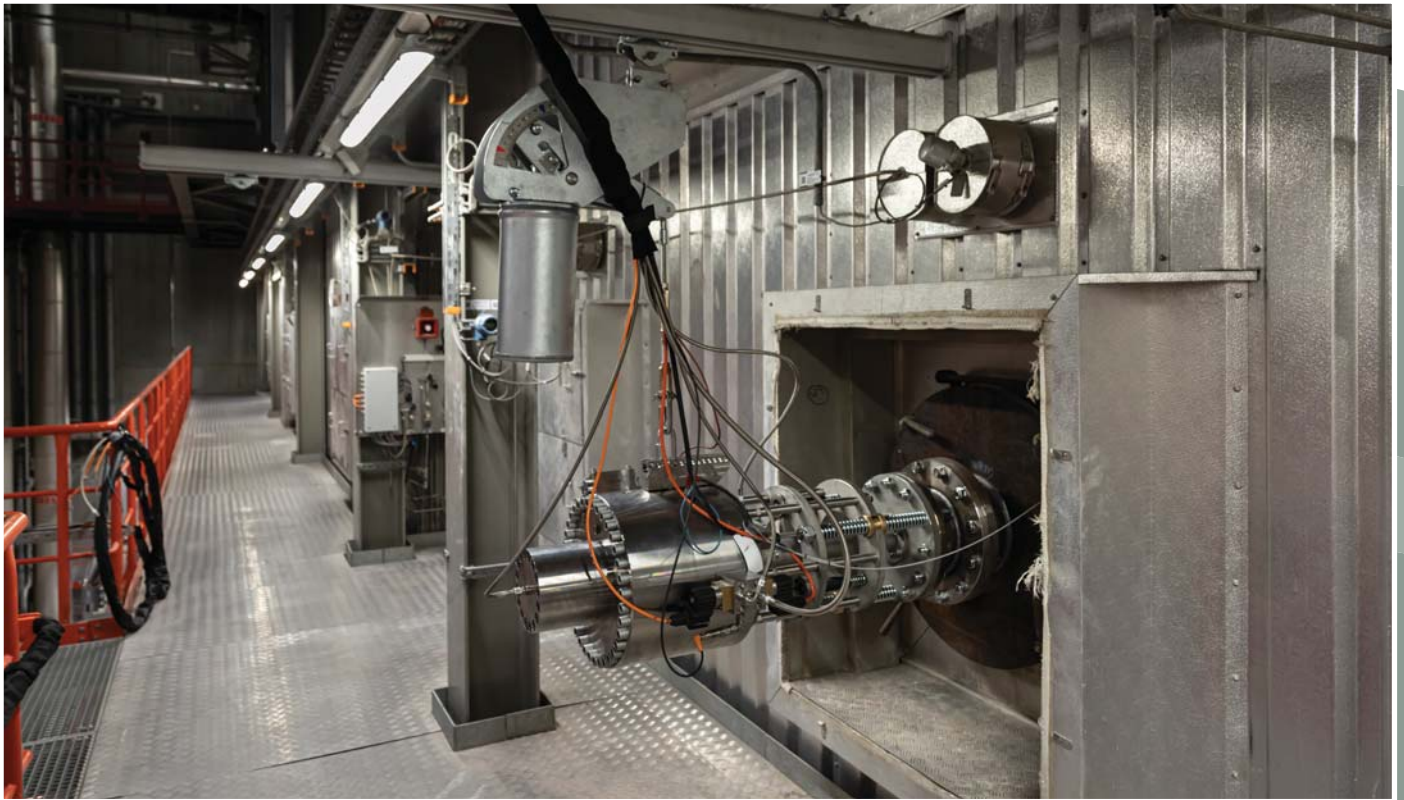


SHOCK PULSE GENERATORS SPGr10 and SPGr16



BOILER CLEANING – CONTINUOUSLY

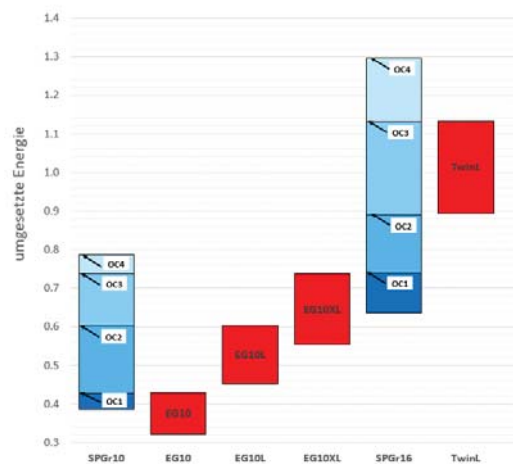


The SPGr Series

After over a decade since the invention of the Shock Pulse Generator in Switzerland, there are now over 800 installed worldwide with over 80 in the UK alone.

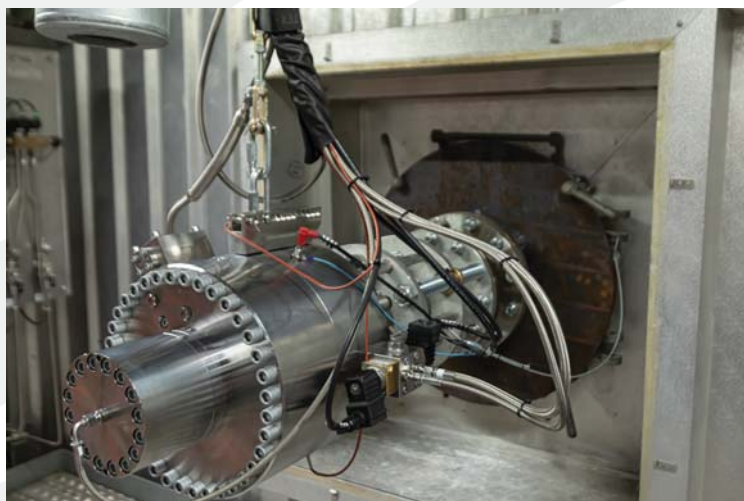
Due to bad fouling, Energy from Waste and Biomass plants are the major beneficiaries of the SPGs.

Now, a new range is being introduced: the SPGr10 and the SPGr16. These two new models cover the power range of the EG10 and higher than the TwinL.



Features:

- Most efficient onload boiler cleaning system with automated shock pulses
- Shock wave injection results in outstanding cleaning efficiency
- Standardised and modular type series
- Compact robust design for simple installation in existing and new plants
- Greater range of pressure cleaning to cope with changing boiler conditions
- Interval between servicing now 7000 cycles



Shock Pulse Generators

Improving boiler efficiency and increasing availability in EfW Plants

In Energy from Waste and Biomass plants, severe fouling of boiler walls and tubes can occur after short operating periods. This can cause many problems, such as blockages that lead to unplanned outages, high pressure drops, reduced heat transfer and high flue gas temperatures.

To avoid such problems, installing a Shock Pulse Generator on the boiler near areas of high level fouling will keep both tubes and boiler walls clear until the next outage.

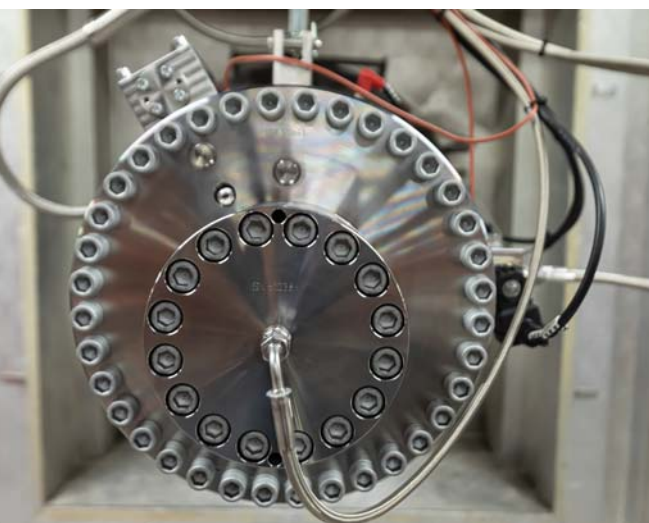
Function and cleaning effect

- Direct filling with high pressure methane and compressed air
- Mixing of gases in combustion chamber
- Ignition by activating glow plug
- Injection of shock pulse into the boiler
- Powerful shock pulse cleans heating surfaces
- Removal of slag and fly ash deposits



Shock Pulse Generators

The Shock Pulse Generator discharge nozzle is introduced through the boiler wall. The shock pulse is discharged into the boiler, and the pressure wave propagates throughout the local area, impacting on deposits and heat transfer surfaces, removing fouling on a regular automated basis.



Benefits:

- Higher boiler efficiency, avoiding unplanned shutdowns
- Replacement of less efficient cleaning systems such as sootblowers and shower cleaning
- Cost effective against existing cleaning systems bringing improved profits
- High grade of cleanliness of heat transfer surfaces by constantly reducing fouling,
- Reduced fouling contributes to lower differential pressure and therefore lower ID fan power consumption