



## Boiler Cleaning Equipment



The Kränzle boiler cleaning system was developed with the assistance of experienced operators in the boiler cleaning industry. It allows one-man operation and guarantees a very high grade of cleanliness without doing any damage to the boiler tubes.

Due to the nature of the fuels and the decreasing quality of coal, a coal fired boiler will require more regular cleaning (approximately 2000 operating hours or less) to maintain a reasonable thermal efficiency of the heat transfer surfaces.

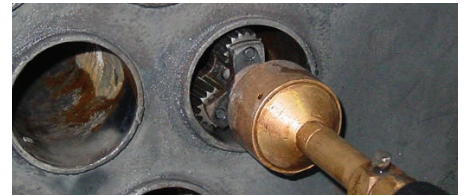
**Please note:** Soot blowers do not clean the fireside of the boiler. They only remove scale and soot from the second pass tube plate and tube ends.

Maintaining a scheduled cleaning program for the boilers is essential to reduce fuel costs, to prevent blockage of the second pass tubes, which will cause overheating of the stoker and low steam pressures.

Because soot has five times the insulating value of asbestos, the heat transfer loss in a dirty boiler rises dramatically as the layer of soot builds up.

## Features

- One man operation without physical strain
- Minimal noise
- No dust, thus eliminating a huge health hazard
- Reduction of cleaning time by up to 70%
- Low purchase price vs. return
- Low maintenance costs
- The Turbokiller rotating nozzle lance facilitates the cleaning of the flues, back and front tubes.
- The Sandblasting Kit is used when preparing for the statutory inspection of the boiler



## Technical Specifications

## Boiler Cleaning Equipment

Pre-rinsing nozzle

Hydro Head Drive



| Soot and Scale build up | Heat Loss | Increased Fuel Costs |
|-------------------------|-----------|----------------------|
| 0.8mm                   | 12%       | 2.5%                 |
| 1.6mm                   | 24%       | 4.5%                 |
| 3.2mm                   | 47%       | 8.5%                 |

## Equipment required

- Kränzle Quadro 800 TST cold water high pressure cleaner
- Boiler Cleaning kit with hydro head and pre-rinsing nozzles
- Foot valve connected to the machine allows hands free activation of the unit
- Additional high pressure hose to feed the pre-rinsing nozzles and hydro head into the boiler tubes
- Sandblasting Kit



*Effective and economical cleaning*