



Shot Cleaning System



Ekströms unique on line shot cleaning technology enables optimal heat transfer to be maintained throughout prolonged industrial process campaigns.

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Top arrangement



Spreader and protecting cup

Efficient shot cleaning technology with many attractive features. Ekströms unique on line shot cleaning technology enables optimal heat transfer to be maintained throughout prolonged industrial process campaigns for your boiler/economizer/air pre heater etc. Successfully installed on many waste incineration plants and other applications.

Our shot cleaning system can be installed on a wide range of boilers, from small to large. The size of cross section in boiler determines the number of spreaders we use.



Vibrating screen



One big advantage that we want to point out is that the shot cleaning is not restricted by the height of the boiler and/or tube banks. The shots are falling irregularly by gravity through the whole boiler and the impact from the "shot" knocks away the deposits. The pneumatic transport system is also able to raise the cleaning shots very high.

We use components in the distributing system is with minimal internal wear, keeping the number of wear parts to a minimum. Our developments includes new wear resistant steel on critical areas. Different Cleaning shot materials for different applications and operating conditions.



Pneumatic blowing machine

Pneumatic conveying of cleaning shots instead of e.g. bucket elevators resulting in very low operating costs. The shot cleaning is controlled by the clients DCS system or local control panel (PLC etc.).



Feed valve and injector

The attractive features of Ekströms shot cleaning includes keeping the heat transfer surface free from ash and deposits. The Ekströms shot cleaning is a true **dry cleaning process** thereby eliminating the use of steam or water resulting in wet ash deposits and adverse influence on flue gas dew point, prohibiting corrosion.



Arrangement of upper parts



Arrangement of tube protection

Advantages with Ekströms Shot cleaning System:

- Low operating/maintenance costs
- Continuous cleaning operation 24h/day in various cycles (intermittent: cleaning/pause time) depending on cleaning demand.
- Ekstroms Shot Cleaning can coop with different cleanings demand by altering the intermittence and/or shot flow in order to optimize boiler performance in all aspects.
- The shot flow is adjustable on the feed valve.

Ekströms have delivered more than 1000 shot cleaning systems and have now over 50 years of experience. During that time we have compiled an unrivalled knowledge and data bank, which along with continuous product development enables us to meet the most demanding challenges in today's market.



3D visualisation of vibrating screen