

## Steel Shot Cleaning System

Low Maintenance Online Cleaning Systems for your Heat Exchangers

Kuttner North America together with our sister company Wuerz from Germany is able to provide an online cleaning system without moving parts on the process side for your Heat Exchanger and Cooler Application.

Are you and your maintenance team tired of cleaning heat exchangers every shutdown or do you even have to have shutdowns because of cleaning issues around your heat exchangers? Then Kuttner North America might have the right solution for you.

Hundreds of our proprietary systems installed world-wide speak a convincing language.

Tube cleaning of the heat exchanger tower is achieved with a non-abrading ball rain (shot) cleaning system. A large number of soft steel balls are pneumatically conveyed from the shot box at the bottom of the tower to the top of the tower. A shot-air separator separates the shot from the conveying air. The conveying air is split off and returned to the tower flue gas outlet.

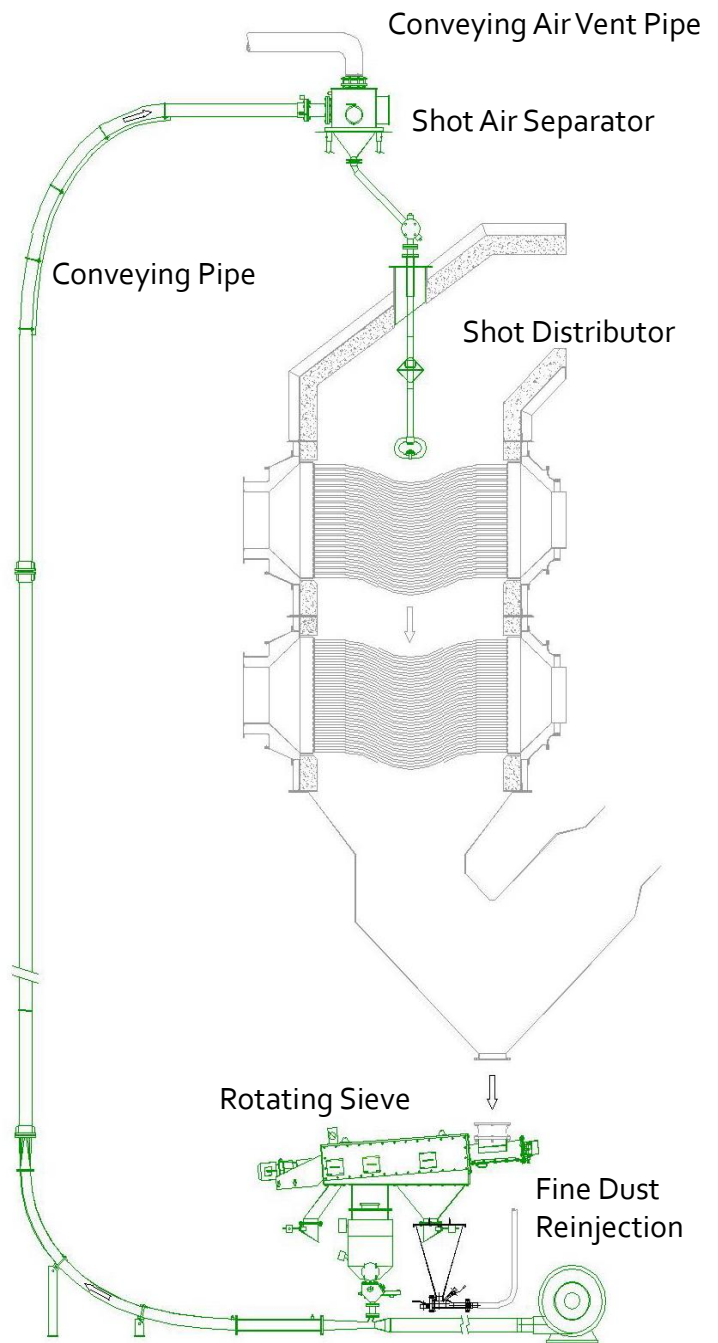
The shot falls through the shot distributor feed assembly onto an abrasion resistant, mushroom shaped, distributor head and randomly sprinkles over the tube bundles in the heat exchanger tower. While passing over the tube bundles it removes fine dust from the surfaces of the tubes.

At the bottom of the heat exchanger tower the steel shot is separated from the falling dust via a rotating sieve drum, metered, and conveyed back to the top of the tower. Dust fines collected at the bottom of the tower are conveyed back into the crude gas ductwork by a re-injection system and should be captured by the emission system.

The shot recirculation cycle is adjustable, and is set to a point where the tubes are cleaned “just enough” so that tube wall abrasion is minimized.



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**Call (888) 918-4483 today for more information or a quote for your specific application.**

Kuttner North America is your complete source for the planning, engineering, design, manufacture, installation, and support for state-of-the-art melt centers, gas cleaning systems, waste recovery systems, and environmental systems for many industries. Throughout our history, we have always placed a high emphasis on quality and customer care. Contact Kuttner North America for single-source engineering and complete parts, service, and technical support.