

## AIR HEATER INSERTS

Boiler efficiency improvements are essential in today's highly competitive environment; if not appropriately addressed, erosion of air heater tubes and tubesheets can cause serious problems.

Erosion can penetrate the tube to tubesheet weld allowing dirty, hot gas into the clean air stream, creating erosion problems in very hard to access areas. When this occurs, tubes must be cut out and replaced, an expensive and time-consuming process. In cases where the damage is not obvious until the unit is opened, this can extend outages and cause potential disruptions in service.

Leakage at the tube to tubesheet weld or into the tubes is undesirable as it increases fan power requirements in direct proportion to the size of the leaks, impairing the efficiency of the air heater.

Ceramic is well known, and routinely used, to prevent erosion in areas of high wear.

### Benefits

- Better abrasion resistance
- Cast with thin walls to prevent pressure drop problems

### Product Details

- Proven track record of 10+ years without erosion or corrosion
- Enormous cost savings
- Standard sizes in stock

### Typical Applications

- Clinker coolers – Cement plants (clinker dust)
- Firetube boilers
- Heat exchangers
- Hot gas recuperators
- Package boilers
- Power plants boilers (coal, biomass, bagasse, wood, hog fuel)
- Pulp and paper boilers
- Thermal oxidizers

