

EUvis insitu

Intelligent vision-based boiler condition monitoring

The condition of the boiler tubes has a significant influence on boiler operation and efficiency. Slagging and fouling reduce the heat exchanger efficiency, disturb the local heat balance and require expensive on-load cleaning. Worse, slagging and fouling may prove irreversible if corrective action is not initiated in a timely manner. Excessive cleaning, however, leads to tube ruptures - the root cause of many forced outages.

Solution

EUvis insitu is a one-of-a-kind fully insertable camera system that traverses the boiler under full load operation. With its rotational head it can monitor boiler areas that would otherwise remain inaccessible. *EUvis insitu* helps you to keep close track of the boiler condition, identify problem areas and damages early in advance and establish a condition-dependent cleaning strategy. Powerful tools help you to analyse, evaluate and archive the information and make it available at your fingertips.

Specification

Camera head mounted to a traversing lance (6 m length), fully rotational along two axes, vario zoom with optimized filters, graphical user interface for intuitive operation, system control with safety functions, manual and automatic system operation mode, client-server architecture with remote access capability, extensive diagnostic and archiving functions for localizing and quantifying deposits & erosion. Installation is turn-key with interface to plant DCS system.

Benefits

- Condition monitoring of boiler condition during operation in otherwise not accessible areas
- Localization and quantitative measurement of deposits, damages and/or tube thickness
- Evaluation and controlling of the sootblowing effectiveness
- On-demand and selective initiation of on-load cleaning devices
- Avoiding of tube damages caused by too frequent or wrong blowing
- Immediate reaction to critical situations for increased plant safety
- Cleaner, more cost-effective and safer burning of demanding fuels

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Camera head mounted to the traversing lance



Superheater inspection



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