

# EUvis insitu™

## Intelligent 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.

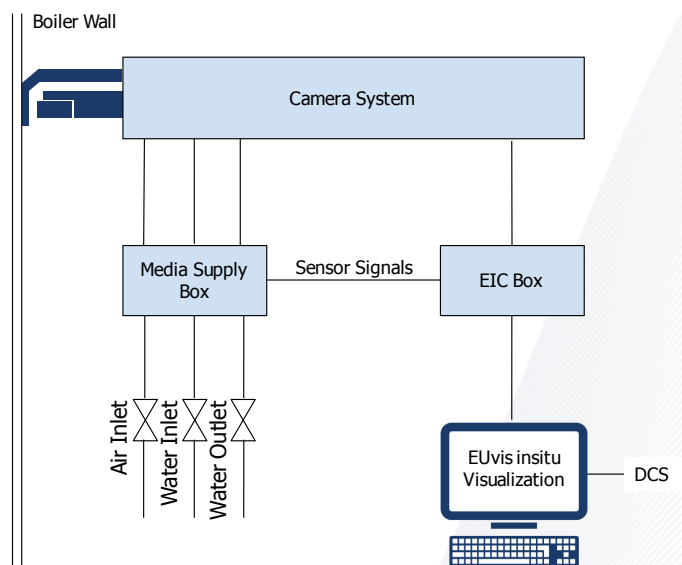
EUvis insitu is a one-of-a-kind fully insertable camera system. It traverses the boiler under full load operation to constantly monitor the condition of the boiler tubes.

### Optical Inspection System

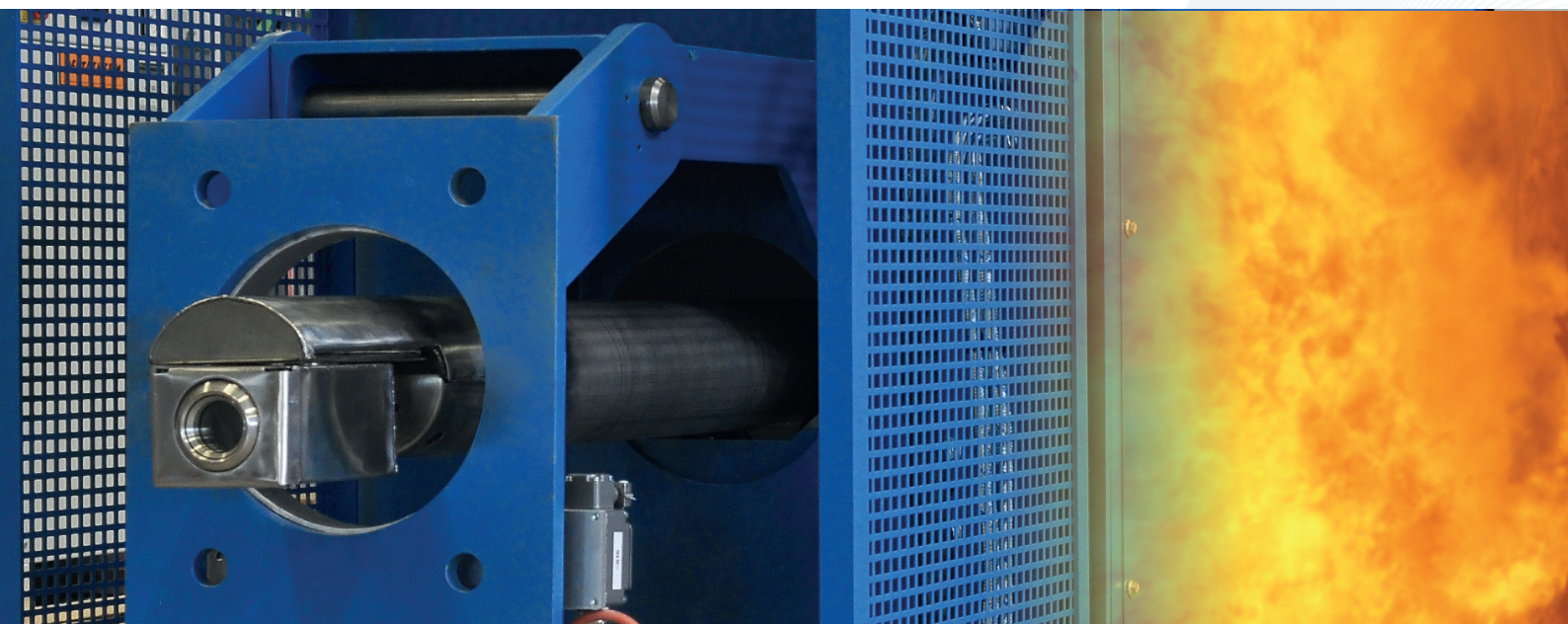
- Continuous monitoring to improve cleaning strategies
- Visualization and analysis of erosion
- Early identification of problematic operating conditions
- Condition-dependent boiler maintenance
- Applicable to fossil fuels and biomass
- Rotational camera head +/- 120°
- Traversing range up to 5.5 m
- Operating temperature up to 1,250 °C

### Benefits

- Localization and quantitative measurement of deposits
- Evaluation and controlling of soot blowing effectiveness
- Prevention of tube damages caused by overcleaning
- Immediate reaction to critical situations
- Improve handling of differing fuel qualities

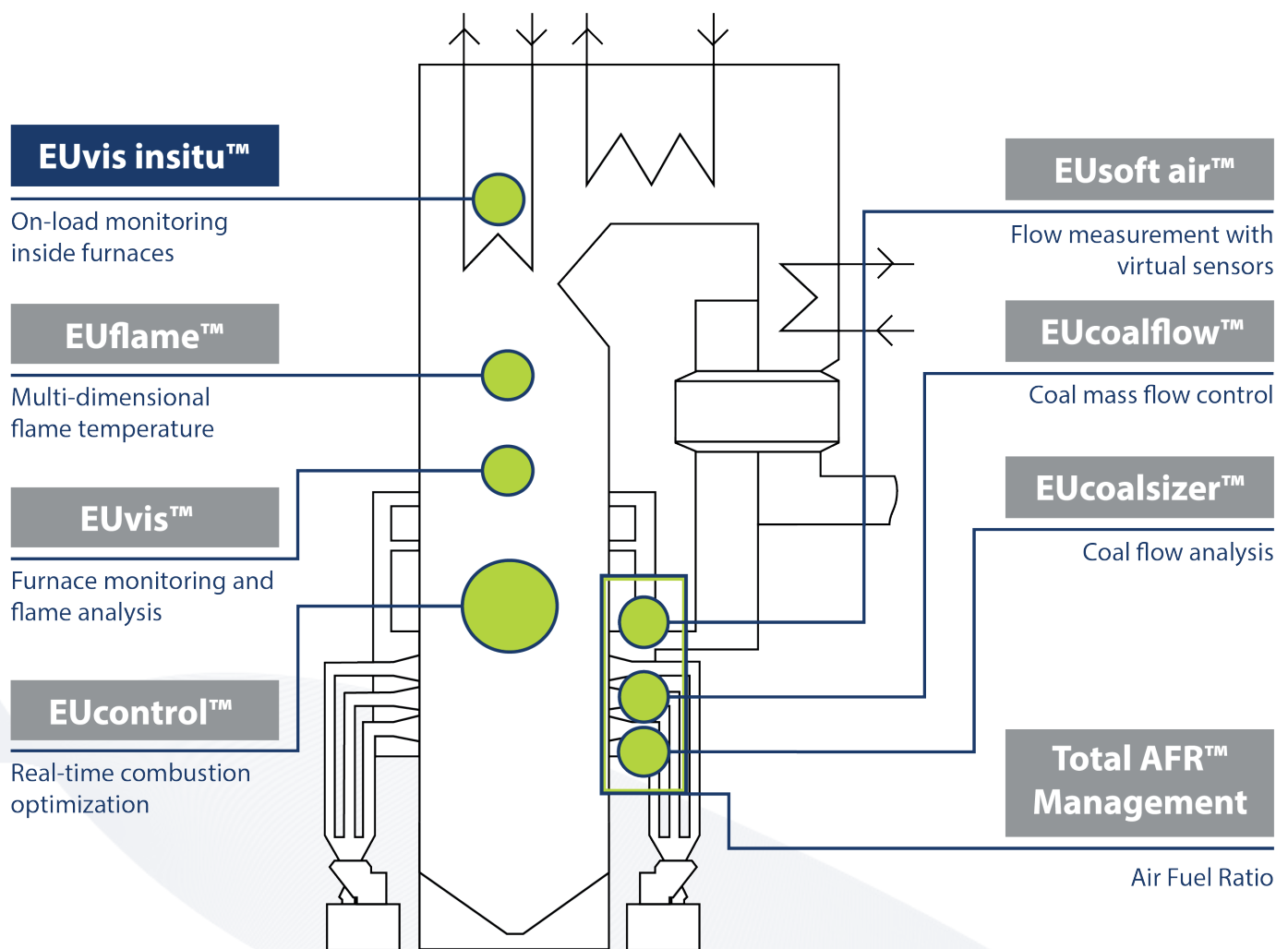


EUvis insitu system set-up



## EUtech Scientific Engineering GmbH

EUtech Scientific Engineering was founded in 1999. The company has established itself nationally and internationally as a successful engineering company in the areas of test stand engineering, simulation, automation and measuring technology. In addition to engineering services in all development phases, we offer turnkey test stands, software-based development tools and measurement systems for the power generation industry. With our innovative model based approach we optimize operations and increase the efficiency of power plants by stepping through the three phases: Measurement - Control - Optimization.



## Contact

EUtech Scientific Engineering GmbH  
 Nerscheider Weg 170  
 52076 Aachen, Germany  
 Phone: +49 2408 / 713 42 0  
 Fax: +49 2408 / 713 42 89  
 Email: [info@eutech-scientific.de](mailto:info@eutech-scientific.de)  
 Internet: [www.eutech-scientific.de](http://www.eutech-scientific.de)

