



Your partner in boiler service

Land-based After Sales



The right choice of maintenance and service will keep your steam, hot-water, heat recovery or thermal fluid heating installation in prime operating condition for decades. Cost-effective repair and rehabilitation ensure high output and sound economy. Let Aalborg Industries be your partner in boiler service.

Decades of boiler know-how at your service

- Maintenance
- Inspections



Aalborg Industries places more than eighty years of experience at your service – around the globe, on power plants, industrial process plants, heat recovery steam generating plants, or refuse disposal plants. Thanks to our vast know-how, expertise and advanced technological capability, we can deliver the service you need, on Aalborg Industries boilers and any make of boiler, burner, and control system.

Our background

Aalborg Industries is a boiler specialist with hands-on experience, backed by advanced engineering capability and business segment knowledge. A leading, international boiler engineering company committed to being your preferred partner in boiler service. That is Aalborg Industries.

Our expertise is concentrated on boiler plant and related combustion, heat transmission and process technologies, and efficient after sales service. Our attitude is an uncompromising dedication to quality.

Maintenance is sound economy

Any facility with a long active service life requires service and maintenance. We can ensure that your boiler plant delivers peak performance within your maintenance budget. Unscheduled downtime or breakdowns are always costly in terms of lost production capacity and repair. We recommend servicing your equipment on a regular preventive schedule to reduce the risk of

unplanned operation stoppages.

Aalborg Industries can supply spare parts and replacement parts, pre-bent tubes, etc. - as well as professional manpower for inspections, evaluations, maintenance, and operator training.

Planned downtime

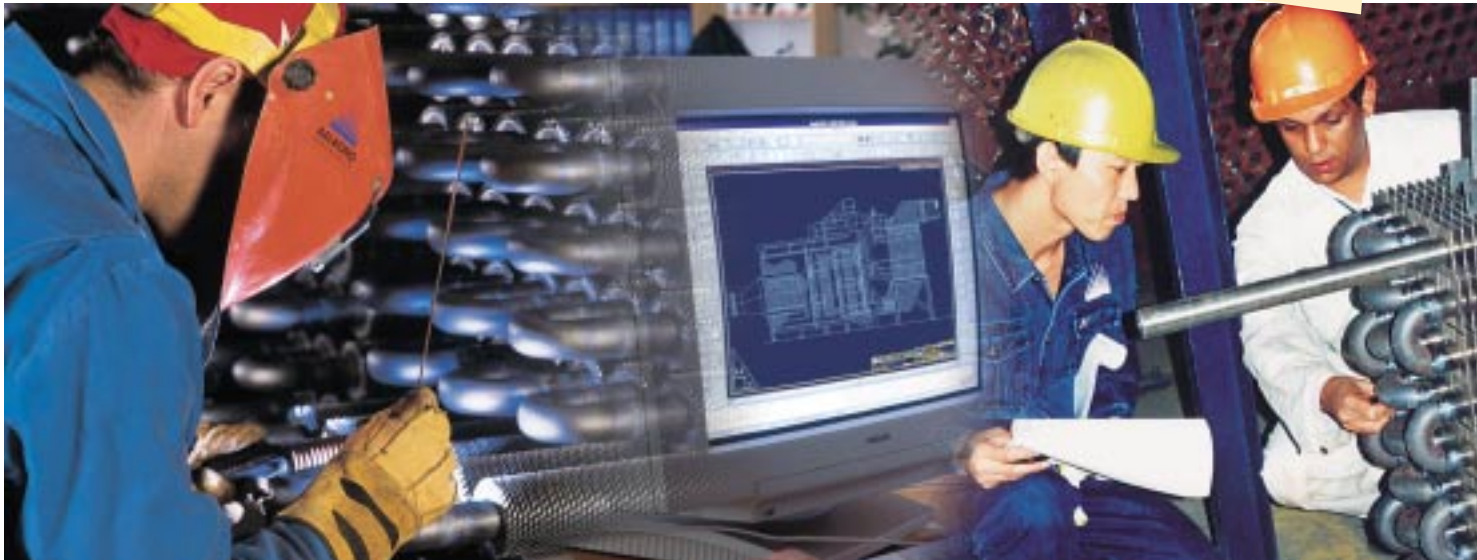
Scheduled downtime in connection with planned maintenance is always a preferable way to secure that necessary maintenance is carried out during off-season. Aalborg Industries can carry out all types of maintenance and offer you spare parts supply for the first 2-3 years of operation of a new boiler.

Inspections

Quotations for service agreements, upgrading or any other service from Aalborg Industries is based on an inspection by one of our experienced engineers or technicians.

Our service expertise will keep your plant in prime condition

- Service agreements
- Training



Protecting your investment

A service agreement with Aalborg Industries is a partnership involving a close co-operation that will keep your plant in excellent operating condition. We will always be there to help protect your investment and keep your production running.

Aalborg Industries offers general and specialised service to your boiler, heater or steam generator, as well as any related equipment – of any make.

Ensuring optimum operation

Our service engineers have full, updated knowledge of local statutory

requirements on safety and operating conditions. And they will give you clear information on general findings and recommendations for possible retrofitting or upgrading in their service report. To ensure optimum operation, they carry out performance testing and evaluation and round off with a final trimming of your plant. Because of our know-how, we can offer expert advice on optimisation of your plant to improve its economy.

Individualised service contracts

We typically identify the right service contract in a teamwork with your plant manager and tailor-make it to

match your needs. A service contract transforms necessary service and repairs from costly breakdown jobs into preventive service, thereby reducing the risk of consequential damage.

Operator training

Training of operating staff is essential for any boiler plant operation, but especially in connection with commissioning of a new plant. Moreover, you should arrange regular training during the years of operation. We offer on-site and in-house training, and our recommended programmes are always tailor-made to your particular needs and facilities.

Aalborg Industries service agreements

Inspection agreement:

Service agreement:

Regular service or maintenance

Regular visits by a service engineer who inspects, tests, and prepares a report of measurements/findings on site

Regular visits by a service engineer who inspects, tests, and services the boiler plant and issues a service report

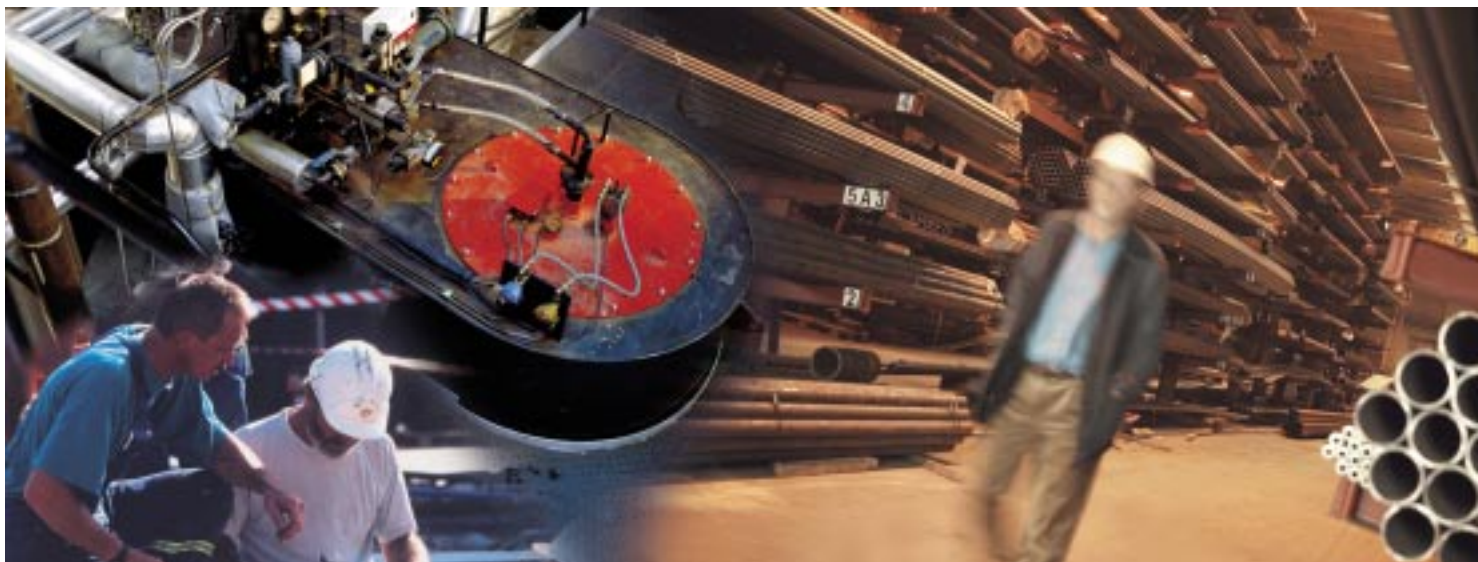
Statutory safety equipment check

Inspection of safety equipment incl. test certificate according to local standards

Specified service on safety equipment incl. test certificate according to local standards

Upgrading and retrofitting

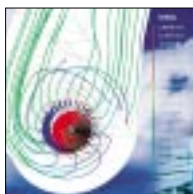
- Upgrading
- Burners & combustion systems
- Control systems



Improving your plant efficiency

Time often reveals the need for upgrading with new or alternative technologies to improve plant economy or comply with tougher statutory requirements and environmental laws or new safety regulations.

Addition of waste heat recovery systems (HRSG) and economizers can be an excellent option for boosting plant economy. Aalborg Industries can do all modification and operating cost calculations to provide a reliable basis for evaluation of feasibility.



Upgrading your existing burner to Aalborg Industries new and improved technology can be an efficient way of prolonging the boiler lifetime.

In some cases, replacement of the pressure part or entire boiler may turn out to be the most cost effective repair solution because you get a completely new unit up to the latest standards and laws and designed specially to a possible new purpose of the plant.

A change of fuel to increase operating economy or utilise locally available energy sources often requires reconstruction of boiler parts, burner, and combustion system – and the control system.

Optimised combustion technology

The right choice of burner system together with optimum calibration of the instrumentation is of the utmost importance – and requires very high qualifications in combustion technology.

Aalborg Industries has been building land-based boilers since the 1920s and burners for almost as long. So you can trust us to recommend the most cost-effective combustion

solutions. Apart from our own burners (KB), we sell and service burners from other manufacturers, also for special fuels.

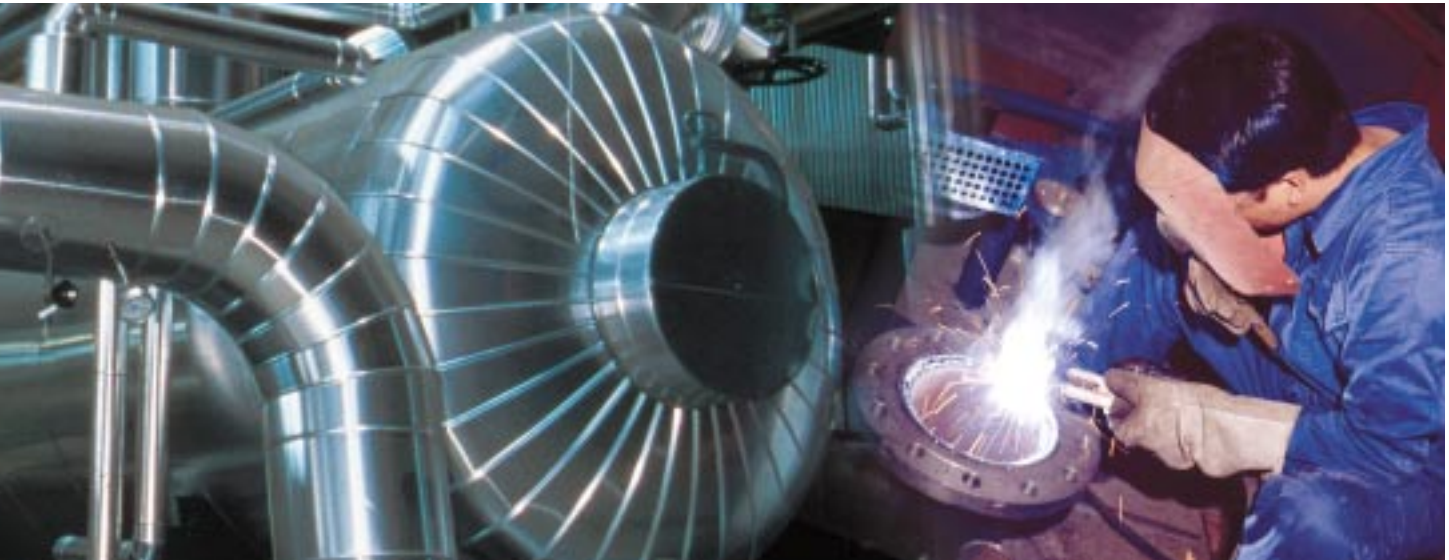
Control systems

Cutting-edge expertise in boiler system control and operation is a key asset at Aalborg Industries. We have teamed up with specialised software partners, and together we design dedicated software packages for our various boiler types. On-site commissioning, maintenance, and systems service are taken care of by our own highly skilled engineers.

The MISSION™ control systems that Aalborg Industries can supply for boilers, burners, and related equipment are based on PLCs and controls from acknowledged international suppliers.

- Boilers
- Heat recovery

Your hot connection to boiler service



Tailored service solutions

Even within the same line of business or process industry, no two steam generating plants are exactly alike or required to perform alike. Benefiting from decades of experience gathered around the globe in a vast number of industries and subject to varying local standards, we can always suggest tried and tested solutions that work for you – aptly suited for local conditions and in international quality.



Aalborg Industries offers reliability gathered from a wide range of industries - for instance power plants world-wide.

Professional engineering and reliable calculations are the standards for engineering at the Aalborg Industries Group. Our thoroughly documented maintenance and upgrading proposals will translate into healthier bottomlines for our customers.

All our quotations are based on an inspection carried out by a professional engineer or technician.

Focus on our customer

Whether it is called After Sales, Aftersales Service or AfterMarket is of no consequence. Our first priority is to secure that our customers are satisfied with their boiler plant. Therefore we offer highly professional service whenever – and wherever – it is needed.

Aalborg Industries operates After Sales companies for land-based boilers in a number of countries around the world, offering service to for instance:

- Process industries
- Oil/gas companies
- Utility companies
- Power stations
- District heating stations
- Food & beverage industries
- Refuse incineration plants

Full range of services

We know boiler and combustion systems inside out. With the full support of our engineering departments and boiler factories, we can assist you from the project phase through to boiler commissioning and maintenance.

These are some of the products that we offer to service, repair, replace or rehabilitate:

- Boilers (steam and hot-water)
- Waste heat recovery units/HRSG
- Burners
- Control systems
- Thermal fluid heating systems
- De-aerators
- Superheaters
- Economizers

Know-how, reliability and fine international references

With Aalborg Industries After Sales, our customers obtain:

- Staff with hands-on boiler operating experience.
- Cutting-edge technical know-how from own R&D and production.
- Reliability and partnership. Strong financial background and ability to meet schedules 100%.
- Viable solutions that are satisfactory to both operators and finance people.



Quality

Apart from the ISO 9001:2000 Quality Management System, Aalborg Industries factories have shop approvals from many classifications societies. We design, install or rehabilitate pressure systems according to most national and international standards and have delivered around 40,000 boilers since 1856.

**Please visit our Internet web site:
www.aalborg-industries.com**

Your service partner:

Aalborg Industries A/S
Gasvaerksvej 24, PO Box 844
9100 Aalborg, Denmark
Tel. +45 9930 4000
Fax +45 9930 4674
E-mail: service-land@aalborg-industries.dk

Global contacts:

- Brazil: Tel. +55 11 6262 2000
- Finland: Tel. +358 2 838 3100
- Indonesia: Tel. +62 21 461 0569
- Singapore: Tel. +65 6261 9898
- Sweden: Tel. +46 8 580 24301
- UAE/Dubai: Tel. +971 4 324 1061