We don’t miss a beat.

Customer-specific services for industrial heat generation.
17% of the world’s population is threatened by rising sea levels.

Experts predict that, according to current estimates, our ecosystem is heading towards a collapse during this century. The climate gases over the Arctic are already at record levels and Greenland’s ice sheet is melting at an alarming rate. Just as dangerous is the resulting rise in sea levels. Long-lasting greenhouse gases are thinning our protective ozone layer while soot particles in emissions and suspended matter are becoming increasingly hazardous to our health.

We must make a stand. As a leading international specialist for combustion plants and environmental engineering, we strongly believe that we must take responsibility for future generations and ensure that we leave a clean legacy for our descendants.

We have elevated this goal to be our brand vision: we want to be pioneers by striving for a better use of energy that is sustainable, efficient, and environmentally friendly. Energy that takes the finite nature of fossil fuels into account by offering efficient and ecological alternative solutions. And in particular, energy that is sustainable for us all. There is still a chance that we can achieve the climate targets set for 2050.

That is our contribution to the quality of life for us and future generations.

The climate targets can still be achieved by 2050.

You can fully rely on this.

Get in touch with us. We’re there for you. 24 hours a day, anywhere in the world. In emergencies as well as for routine activities. Whatever the service issue, we’ll take care of it. Directly, competently, and with full commitment. To make sure that you end up with the highest quality customer experience. Rest assured that you have a partner who takes responsibility together with you – a partner with unparalleled engineering know-how, system knowledge, and a progressive technological mindset.

The following pages describe how you can obtain specific benefits from our promise and how exactly you can take advantage of our progress and innovation.
Changing energy into better.
Our promise to you.

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That is our contribution to the quality of life for us and future generations.

All our energy for personal service.

Are you looking to benefit from our reliability and experience in combustion engineering at any time during operation? A justifiable expectation. Every one of our service employees is committed to ensuring the durability and flawless functionality of your plant.

You can fully rely on this.

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The following pages describe how you can obtain specific benefits from our promise and how exactly you can take advantage of our progress and innovation.
Give your plant the attention it deserves.

For the life of the plant.

Take advantage of service solutions that will exceed your expectations and that are aligned to the unique character and the specific features of your plant. Regardless of the phase at which you need our help—a common thread through all our service is the responsibility that we assume at all times when we stand by your side.

1st phase: Before delivering the plant
- Installation and inspection instruction/training of customer and SAACKE technicians
- Preparation of the installation site
- Scheduling

2nd phase: Installation
- Installation of the plant
- Training by SAACKE technicians
- Direct contact with project engineers

3rd phase: Commissioning
- Commissioning checks
- Ensuring availability
- Inspection of circuit functionality
- Mechanical inspection of installation
- Optimization of the air/fuel ratio
- Measurement of emissions and KPIs
- Fine-tuning
- Results documentation
- Instructing the plant personnel

4th phase: Warranty period
- Any potential readjustments
- Fault removal
- Optimization of the combustion settings
- Supply of spare parts

5th phase: During operation
- Maintenance activities
- Advice on plant upgrades
- Fault removal
- Spare parts management
- Advice on safety and availability
- Efficiency consulting with reference to statutory reforms and product innovations
- Any potential plant conversions to optimize efficiency, save energy, and reduce emissions

For the life of the plant.

Our attention is focused on the entire life cycle of your combustion plant. This means that we are on-site before your plant is delivered, we diligently look after the installation, commissioning, and maintenance, perform checks and analyses, as well as precise plant documentation. Our cooperation does not end with the expiration of the warranty period. You should be in absolutely no doubt that we will continue to be there for you without reservations.
Give your plant the attention it deserves.

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Service performances 05
Tenacious and persistent for your benefit.

When we service your plant, our focus is on making sure that you receive the greatest possible benefit. That is the motivation behind our service to optimize your commercial and ecological requirements as well as the safety of your plant. We focus on the following aspects:

Premium performance.

Quality is characterized by more than flawless material. Quality is the result of the uncompromising interaction of all factors. Regardless of whether this involves a certified spare part or the prevention of unscheduled downtimes, it is always backed by the special skills and know-how provided by both your and our personnel. As competition increases, it is important that this competence continues to be refined and that the motivation and self-awareness of the technicians involved continue to be supported and developed. You can also take advantage of our quality in completely different areas:

Quality Tenacious and persistent for your benefit.

When we service your plant, our focus is on making sure that you receive the greatest possible benefit. That is the motivation behind our service to optimize your commercial and ecological requirements as well as the safety of your plant. We focus on the following aspects:

Costs Clear savings with clean energy.

Ensure planning reliability.

Flawless production processes are ultimately also a question of safety. This doesn’t just relate to the plant, but also includes your technical personnel. Clear instructions help to prevent accidents, while workshops make sure that the participating operating and maintenance employees are kept up to date on the latest developments. Together with preventative logistics and a range of other services – the best thing that you can do for your combustion plant:
Count on us.

As your partner, we will do everything we can to make sure that your firing plant is profitable in every aspect. Starting with the training of your and our employees through to the precise specification of your parts requirements. The result is the effective execution of tasks and preventative logistics that saves you both time and money. Defining advantages are also provided with regard to your plant engineering as well as maintenance and production, as is shown by the following example:

**First we examine your plant, then we perfect it.**

This requires high efficiency. At least, it does if you want to get the most out of your firing plant and are looking to promote responsible fuel use. Sometimes investment in new equipment is not required in order to achieve optimum efficiency and sustainability. It is often small and simple changes to your existing combustion plant that effectively raise the plant’s overall efficiency. Specifically, this refers to fuel savings around 10 percent. And the environment also benefits from these reduced emissions.

**Our performance**
- Analysis of problems/equipment restricting capacity
- Flexible service modules
- Quick error diagnostics and fault clearance by trained personnel

**Your benefits**
- Prevention of unscheduled downtimes
- Reduction of wear and points of weakness
- Lower downtime costs and service savings

**Standard plant performance is not enough. We prefer to optimize it.**

Our efficiency analysis and various measuring processes demonstrate the potential for saving fuel through an upgrade of your firing plant and increased overall efficiency. Our performance
- Analysis and resolution of weak points as part of workshops and audits
- Targeted measures to increase efficiency
- Customized fulfillment of your requirements
- Fast logistics and reduced downtimes

**Your benefits**
- Prevention of unscheduled downtimes
- Reduction of wear and points of weakness
- Lower downtime costs and service savings

**Costs**
- Analysis of problems/equipment restricting capacity
- Flexible service modules
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**Our performance**
- Identification of the precise maintenance condition and optimization potential
- Individually tailored maintenance packages
- Provision of preassembled repair kits

**Your benefits**
- Prevention of unscheduled downtimes
- Reduction of wear and points of weakness
- Lower downtime costs and service savings

**Plant engineering**

**Production**

**Maintenance**

---

40 % of the energy consumed by industry could be saved through modernization measures.
Tenacious and persistent for your benefit.

When we service your plant, our focus is on making sure that you receive the greatest possible benefit. That is the motivation behind our service: to optimize your commercial and ecological requirements as well as the safety of your plant. We focus on the following aspects:

**Quality**
- Analysis of the production processes in consultation workshops
- Safe, precise, and consistent setting parameters
- Regular audits of the production processes
- Preparation of a parameter list
- Application of fine-tuning adjustments
- Predefined agenda of tasks and personnel requirements
- Highly qualified engineering employees
- Regular maintenance by our specialists

**Costs**
- Analysis of your plant processes
- Short delivery times and targeted warehousing
- Training courses and workshops for maintenance and operation
- Quick intervention if faults occur
- Maintenance of a logbook
- Defined downtime
- Training courses and best-practice workshops

**Availability**
- Analysis of the production processes in consultation workshops
- Safe, precise, and consistent setting parameters
- Analysis of your plant processes
- Short delivery times and targeted warehousing
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**Production**
- Analysis of the production processes in consultation workshops
- Safe, precise, and consistent setting parameters
- Optimization of the production processes
- Preparation of a parameter list
- Application of fine-tuning adjustments
- Optimization of the production flow
- Better machine output
- Improved quality of the end product
- Reduced emissions

**Maintenance**
- Analysis of the production processes in consultation workshops
- Safe, precise, and consistent setting parameters
- Optimization of the production processes
- Preparation of a parameter list
- Application of fine-tuning adjustments
- Optimization of the production flow
- Better machine output
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- Quick intervention if faults occur
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- Training courses and best-practice workshops

**Key benefits**
- Higher plant availability
- Reduced downtimes
- Prevention of unscheduled faults
- Specification of the number and duration of maintenance activities
- Better planning reliability
- Structured maintenance processes
- Competent machine operation and stable output
- Prevention and shortening of downtimes
- Higher availability of your end products – increase in customer satisfaction

**Premium performance.**

Quality is characterized by more than flawless material. Quality is the result of the uncompromising interactive of all factors. Regardless of whether this involves a certified spare part or the prevention of unscheduled downtimes, it is always backed by the special skills and know-how provided by both your and our personnel. As competition increases, it is important that this competence continues to be refined and that the motivation and self-awareness of the technicians involved continue to be supported and developed. You can also take advantage of our quality in completely different areas:

**Quality**
- Tenacious and persistent

**Costs**
- Pure energy with clean energy

**Availability**
- The A to Z of a safe plant

**Production**
- For only one measure: premium value

**Maintenance**
- Flawless production processes are ultimately also a question of safety. This doesn’t just relate to the plant, but also includes your technical personnel. Clear instructions help to prevent accidents, while workshops make sure that the participating operating and maintenance employees are kept up to date on the latest developments. Together with preventative logistics and a range of other services – the best thing that you can do for your combustion plant.
Tenacious and persistent for your benefit.

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**Premium performance.**

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- **Availability**
  - Our performance
    - Analysis of the production processes in consultation workshops
    - Safe, precise, and consistent setting parameters
  - Your benefits
    - Improved plant efficiency
    - Better plant performance
    - Increased reliability

- **Quality**
  - Our performance
    - Predefined agenda of tasks and parts and personal requirements
    - Highly qualified engineering employees
    - Regular maintenance by our specialists
  - Your benefits
    - Optimization of the maintenance quality
    - Assurance of quality standards
    - Joint learning process by key account technicians

- **Costs**
  - Our performance
    - Regular audits + analysis of the production processes
    - Preparation of a parameter list
    - Application of fine-tuning adjustments
  - Your benefits
    - Optimization of the production flow
    - Better machine output
    - Improved quality of the end product
    - Reduced emissions

Ensure planning reliability.

Flawless production processes are ultimately also a question of safety. This doesn’t just relate to the plant, but also includes your technical personnel. Clear instructions help to prevent accidents, while workshops make sure that the participating operating and maintenance employees are kept up to date on the latest developments. Together with preventive logistics and a range of other services – the best thing that you can do for your combustion plant:
First we examine your plant, then we perfect it.

Standard plant performance is not enough. **We prefer to optimize it.**

This requires high efficiency. At least, it does if you want to cut the real, not just your firing plant and aim to keep the same operational level or even increase it. Some investment in new equipment is not required to achieve optimal efficiency and sustainability. It often small and simple changes in your existing combustion plant that increase your efficiency and reduce costs. Specifically, it refers to fuel savings almost 10 percent. And the environment also benefits from these reduced emissions.

### Costs

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<td>Lower downtime costs and service savings</td>
<td>• Analysis of problems/equipment restricting capacity</td>
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### Plant engineering

- **Our performance**
  - Analyse the problems and restricting capacity
  - Flexible service modules
  - Quick error diagnostics and fault clearance by trained personnel

- **Your benefits**
  - Targeted measures to increase efficiency
  - Customized fulfillment of your requirements
  - Fast logistics and reduced downtimes

### Maintenance

- **Our performance**
  - Identification of the precise maintenance condition and optimization potential
  - Individually tailored maintenance packages
  - Provision of preassembled repair kits

- **Your benefits**
  - Prevention of unscheduled downtimes
  - Reduction of wear and points of weakness
  - Lower downtime costs and service savings

### Production

- **Our performance**
  - Analysis and resolution of weak points as part of workshops and audits
  - Precise adjustment of the machines and the plant

- **Your benefits**
  - Power and shorter downtimes during maintenance
  - Guarantee of maximum safety and availability
  - Prevention of unscheduled downtimes

---

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As your partner, we will do everything we can to make sure that your firing plant is profitable in every aspect. Starting with the training of your and your employees through to the precise specification of your parts requirements. The result is the effective execution of tasks and preventative logistics that saves you both time and money. Defining advantages are also provided with regard to your plant engineering as well as maintenance and production, as shown by the following examples.
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**First we examine your plant, then we perfect it.**

**Standard plant performance is not enough.**

*We prefer to optimize it.*

This requires high efficiency. At least, it does if you want to cut the real, and all your firing plant and air-handling equipment and use your plant in the most optimal way. Sometimes investment in new equipment is not required in order to achieve optimum efficiency and sustainability. It’s often small and simple changes to your existing combustion plant that effectively increase its efficiency. Specifically, this refers to fuel savings over 10 percent. Likewise, environmental benefits flow from these reduced emissions.

### Costs

**Our performance**

- Analysis of problems/equipment restricting capacity
- Flexible service modules
- Quick error diagnostics and fault clearance by trained personnel

**Our benefits**

- Prevention of unplanned downtimes
- Reduction of wear and points of weakness
- Lower downtime costs and service savings

### Key benefits / Costs

### 1. Analysis

The first step is to thoroughly test your combustion plant. Pay particular attention to your plant’s fuel and economic efficiency during these test runs. The key words here are: efficiency, reliability, cost savings, and profitability. Following the detailed discussions with your operations manager and the responsible engineers, all the relevant system parameters are recorded using an energy-efficiency monitor.

### 2. Evaluation

Based on the test results and the necessary data recorded, the following information is available concerning the energy efficiency and financial performance of the combustion plant. If necessary, a targeted upgrade of your plant will improve its efficiency.

### 3. Concept

The evaluation helps to determine the necessary improvements for your current system to achieve the best possible efficiency. This concept is the basis for determining the energy savings to be expected at your location.

### 4. Implementation

Following your approval, we select the appropriate modules to convert your combustion plant:

- **Conversion packages**
- **Complete burner inspections**
- **Engineering**
- **Speed-controlled motors** (reduction of the fan speed and noise, saves power)
- **CO/O2 control** (saves up to 2% fuel and reduces heat loss)
- **Economizer and heat exchanger** (reduces the flue gas temperature, quick amortization period, savings > 5%)
- **Delivery/commissioning/optimization/programming**

### 5. Measurement of results

We then once again diligently adjust all the relevant parameters of your plant based on the defined target values.

40 % of the energy consumed by industry could be saved through modernization measures.
Maximum individuality.

Your service contract.

No two plants are alike, so we don’t provide a run-of-the-mill standard service; instead we provide the required mix of skills and capabilities to match your demands. Such as a service concept tailored precisely to your needs, whose scope and emphasis is coordinated together with you. You decide what is most relevant for your plant: costs, quality, or availability.

Benefits of your service contract.

More planning certainty. More efficiency. More emission protection. This is all included in your individual service contract:

- Best-practice engineering
- Advice on plant upgrades
- Technology and burner analyses
- Plant documentation
- Mix of skills and capabilities to match the demands of your plant
- Sustainable service planning
- Preventative maintenance/logbook maintenance
- Planning certainty for price and timing
- Short reaction times
- Longer plant running time
- Training of site operators

Different countries. Different customs. One promise.

As diverse as the world’s cultures are, one thing is and remains the same everywhere. Our service. There is nowhere on this planet where you can’t call on our services. Our Service Hotline is available around the clock for emergencies. For any other incidents, you can always contact your personal SAACKE contact partner in your region, who makes sure that you benefit from our service directly and immediately.

Our strengths - multiplied by seventy, just for you.

Anyone looking to take advantage of our service has the option of:

Service Support Line.

For emergencies.

Free worldwide: +800 10020001

You can find out more about our services and standard product range at www.saacke.com
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We don’t miss a beat.

Customer-specific services for industrial heat generation.