

ENGINEERING THE ENERGY TRANSITION



ABOUT ERK®

With over 6,000 ERK Boiler systems and more than 80,000 megawatts of installed capacity worldwide, ERK has a unique history of design expertise.

Sharing and collecting knowledge is at the heart of ERK's activities. Our energy system design started in Berlin, in the late-1920s. Today, our services are being applied worldwide.

We proudly look back at a long history of success. We cover multiple industries and a large variety of solid, liquid and gaseous fuels.

ERK's success is based on our core skills of design expertise, innovation and global cooperation. With our global network of licensees, we weave a web of expertise across more than 25 countries.

ERK® is a registered trademark.

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LEADING TECHNOLOGY PROVIDER

We are among the top global technology providers for boiler systems that are independently verified.



SPECIALIST KNOWLEDGE FOR PARTNERS

We share our knowledge and experience with our contractual partners. Each energy system incorporates the experience of all of ERK's partners.



CUTTING-EDGE INNOVATION

We gain knowledge through our R&D projects with partners from the industry, universities, global institutions, and by monitoring specialist literature.



ENGINEERING AND DESIGN SUPPORT

License holders have access to our engineering and design services located in the Berlin office. You will always have all the knowledge at your fingertips.

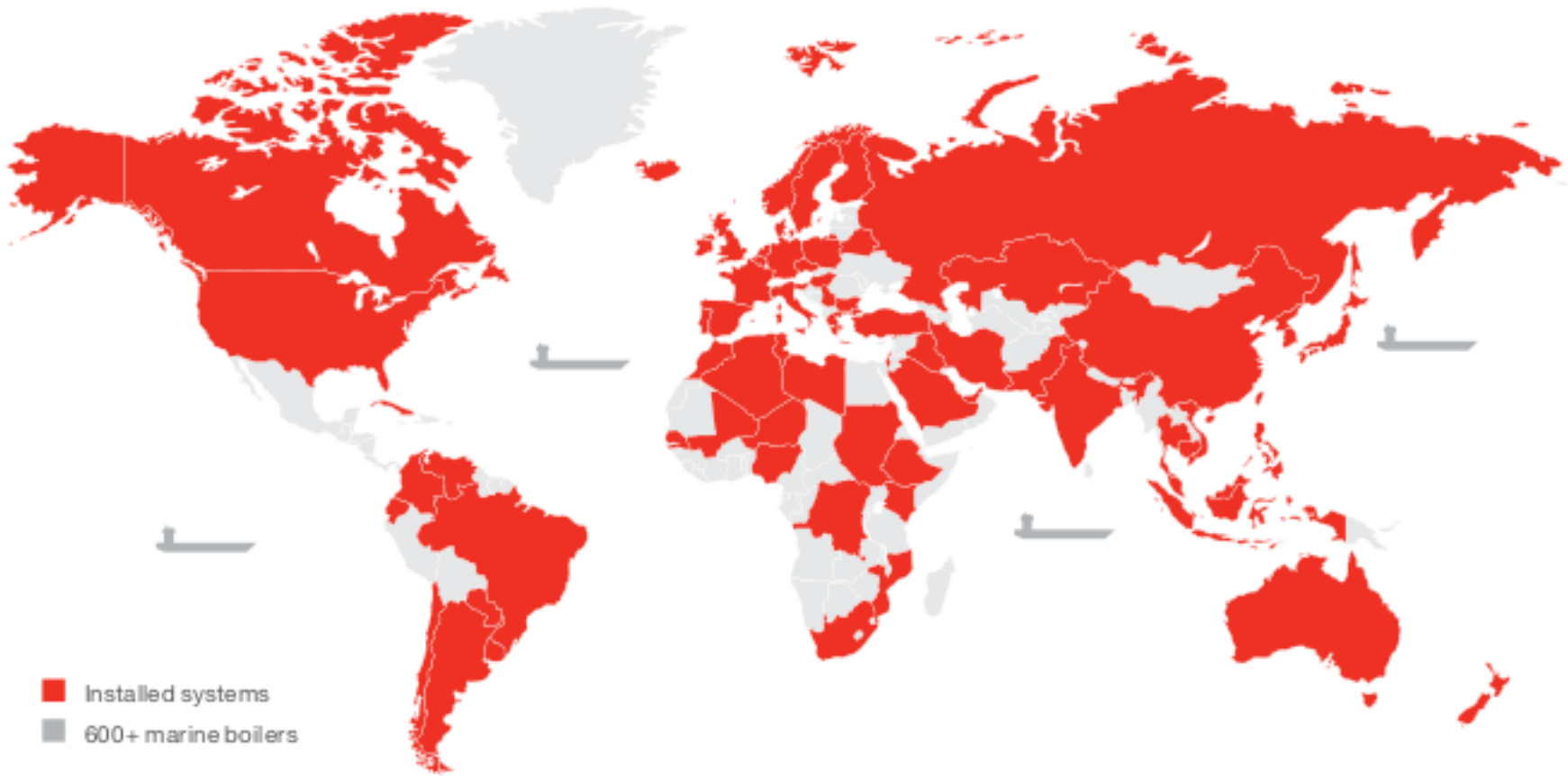
ERK BOILERS

Tailor-made engineering services from concept to operation

With more than 6,000 boilers worldwide, ERK can draw on unique know how. We have been ranked among the top global technology owners. We have an extensive fuel spectrum, including biomass and waste materials, heat recovery, oil and gas, coal, multi-fuels, concentrated solar power, geothermal, power to heat, and thermal energy storage.

Our services cover the provision of ERK water tube boilers, fire tube boilers, firing systems, heat exchangers and engineering services in industrial and power plants. On request, we can provide more detailed references and even organise site visits to allow you to experience our high-quality work first-hand.

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GEOGRAPHICAL DISTRIBUTION

Oil and gas fired boilers/heaters	3,970	Waste fired boilers/heaters	680
Multi fuel boilers/heaters	1,200	Marine and offshore boilers/heaters	610
ERK tube technology	1,070	Biomass fired boilers/heaters	380
Coal fired boilers/heaters	750	Heat recovery boilers/heaters	270
		Engineering services	180

ENGINEERING

Thermal engineering is at the heart of ERK's business. With more than 6,000 boiler installations & hundreds of engineering contracts we boast unique expertise.

ERK offers a broad range of specialised engineering services. Our aim is to comprehensively support our customers from concept stage to operation and ensure successful operation of their equipment.

more than

180

REFERENCES



INDUSTRIES

Oil & gas, petrochemical, chemical, food processing, pulp and paper, distributed & utility power generation, district heating, sugar industry, solar thermal, manufacturing, marine & offshore



Our engineering services have a strong focus on energy and resources, and were presented the German Award For Natural Resources Efficiency 2016 (Deutscher Rohstoff Effizienzpreis).

WE HAVE EXPERIENCE WORKING WITH THE FOLLOWING INTERNATIONAL CODES

- ASME
- DIN EN
- BS
- AD/TRD
- GB/T16507
- IBR
- IPS-G-ME-180
- GOST
- METI
- JIS
- Australian Standards
- Germanischer Lloyd
- Det Norske Veritas
- ABS

Our services include expert reports on plant analysis and optimisation, plant upgrades and revamps, fouling, flow optimisation, strength analysis, as well as detail engineering. We cover standard designs for oil and gas-fired boilers to very specialised tasks, such as creating designs for chemical heaters and solar thermal energy plants, and collaborate with plant owners, project developers, engineering companies, EPCs, and OEMs.

Due to its extensive international network, ERK has expertise with many codes and standards worldwide and understands the differences between them and the cost implications involved. Our boilers comply with all relevant codes and standards.

ENGINEERING SERVICES

ERK Energy Systems offers a broad range of specialised engineering services.

FLOW SIMULATION

- Computational fluid dynamics calculations
- Flow & combustion simulations
- Analysis for slagging and fouling

WATER CIRCULATION

- Flow calculations for new mono & two-drum boilers as well as all natural & forced circulation systems
- Analysis of existing units to increase output or avoid water circulation induced problems

THERMAL CALCULATION

- Calculation of new boiler/heater projects
- Review of modifications, up-scaling, revamping & fuel conversions

EXPERT REPORTS

- Damage reports & root-cause analysis
- Plant and component assessments & optimisation
- Technology evaluation and selection
- Comparative evaluation of commercial and technological viability
- Lifetime expansion assessment and upgrade
- Plant availability improvements
- Analysis of corrosion & fouling in boiler systems
- Expertise and mediation in legal disputes

DESIGN FOR MANUFACTURE & ASSEMBLY

- Design for lowest manufacturing, transport & installation costs
- Optimisation of module dimensions & weights
- Maximisation of pre-fabrication options

SYSTEM AND DETAIL DESIGN

- Detail engineering for boilers & thermal equipment
- Rankine & Brayton cycle design
- Development of standardised boiler/heater designs
- Assembly schedules & supervision

STRENGTH ANALYSIS

- Strength calculations for pressure vessels in accordance with applicable codes and standards
- Structural strength analysis e.g. wind & earthquake resistance
- FEM calculations
- Internal pressure calculations

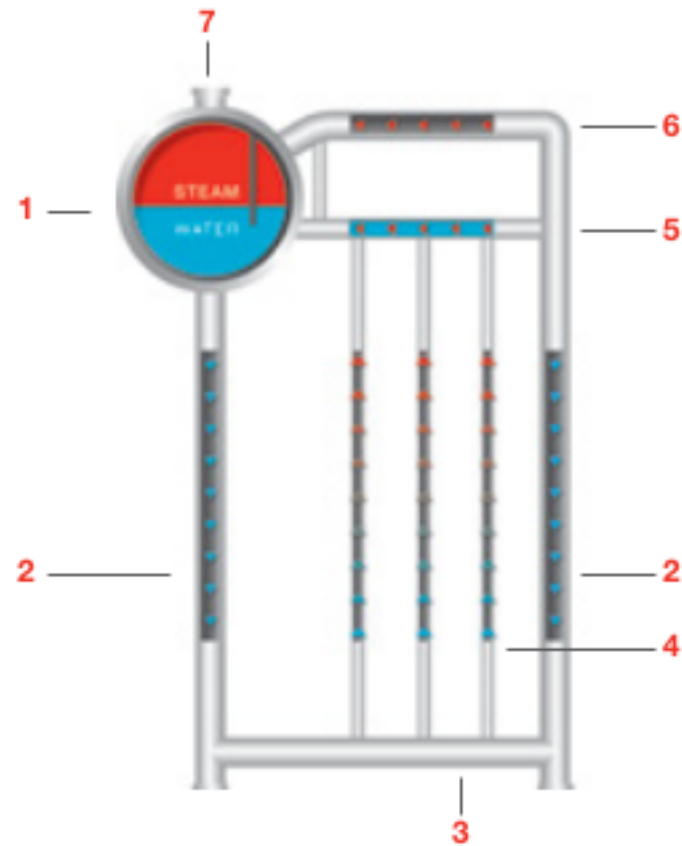
MEASUREMENT SERVICES

- Process monitoring
- System optimisation
- Distribution of flue gas temperature & velocity
- Membrane wall temperatures
- Water velocities

ERK BOILERS

More than seven decades of ERK Boiler implementation and 6,000 installed boiler systems worldwide demonstrate the unique benefits of the ERK design and our ongoing desire to improve and innovate.

The ERK (corner tube) Boiler is a modern, natural-circulation water tube boiler. The main characteristics are a very active water circulation, rapid load change capability, light-weight construction and self-supporting structure.



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KEY ADVANTAGES OF THE ERK SYSTEM:

- Self-supporting mono-drum design
- Quick start-up and rapid response
- High load variation speeds
- High pressure variation speeds
- High level of steam purity
- Custom designs & adjustments to available footprint
- Adaptable to all types of combustion system
- Low maintenance and high reliability
- Fuel Flexibility

HOW DOES IT WORK?

Water flows down from the drum **1** through the downcomer and return tubes **2** under the drum and at the rear of the boiler. Through the headers **3** it is distributed to the evaporator tubes **4**, where water evaporates upwards. Then it is collected in the mixture tubes **5**. Overflow tubes **6** are connected to the mixture tubes, which pre-separate water and steam outside the drum. The final water and steam separation occurs inside the drum. From there **7**, the water is recirculated and the steam is forwarded to the process or the superheater.

OUR ERK BOILER SYSTEMS:



Biomass



Waste materials



Oil & gas



Coal



Multi-fuel



Heat recovery



Concentrated Solar power



Geothermal



Power to heat



Thermal energy storage



BIOMASS

more than

380

REFERENCES

REFERENCE PARAMETERS

MAX 160 / 540 / 109
MW / °C / BAR

MIN 0,4 / 180 / 3
MW / °C / BAR

Biomass is one of the oldest energy sources worldwide. These days it is also used to provide renewable process heat and electricity. The fuel spectrum is very versatile, ranging from simple materials, such as wood chips, to more complicated materials, such as empty fruit bunches.

Due to our hundreds of references, ERK knows exactly which combustion system and boiler type is ideally suited for a particular fuel or fuel mixture. We then design the boiler system to a particular fuel spectrum and application.

Meanwhile, we are taking into account fuel and ash properties, fouling behaviour, process parameters, and site as well as transport conditions.

SPECIAL FEATURE

Optimised fouling design for 540° C steam temperature

WORKING FLUIDS

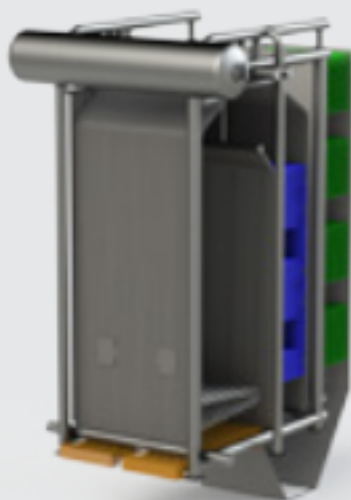
- hot water
- steam
- thermal oil
- hot air

FUELS

- timber
- wood waste
- bark
- rubber wood
- bagasse
- rice husk
- empty fruit bunches
- groundnut and peanut shells
- straw and cotton stalk
- sunflower husk
- olive stones
- coconut waste
- palm residue
- palm oil
- grinding dust

FIRING SYSTEM

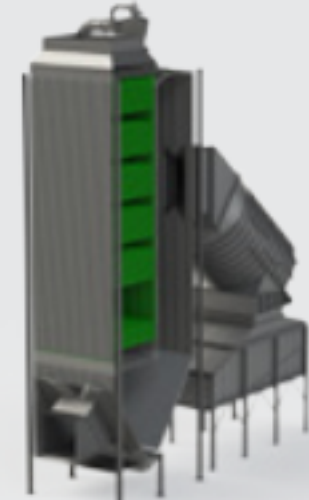
- reciprocating grate
- vibrating grate
- push grate
- step grate
- travelling grate
- underfeed grate
- water-cooled inclined grate
- bubbling fluidised bed
- circulating fluidised bed
- torsional combustion chamber
- gasifier
- dust and cigar burners
- torrefaction



Bubbling fluidised bed boiler



Gasification integrated boiler



External grate type thermal oil heater



OIL & GAS

The largest number of industrial boilers worldwide are oil and gas-fired. With increasing global concerns about carbon emissions, there is a move towards natural gas and higher boiler efficiencies.

ERK has thousands of oil and gas-fired boiler systems. These use both standard fuels like natural gas and also more complicated fuels, such as blast furnace gas. The use of multiple fuels simultaneously is also possible and increasingly common.

From the very beginning, ERK has sought to continuously improve efficiencies and recently commissioned a 98% efficient boiler. Combustion air preheating and flue gas condensation are used to achieve such efficiency levels.

more than

3970

REFERENCES

REFERENCE PARAMETERS

MAX 176 / 540 / 141
MW / °C / BAR

MIN 0,2 / 45 / 3
MW / °C / BAR

SPECIAL FEATURE

98% boiler efficiency

WORKING FLUIDS

- hot water
- steam
- thermal oil
- hot air
- chemicals

FUELS

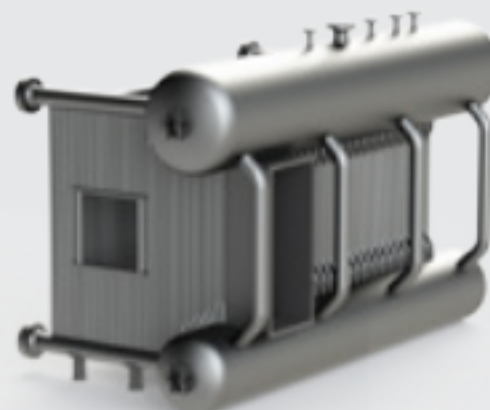
- natural gas
- refinery gas
- khuff gas
- hydrogen
- blast furnace gas
- coke oven gas
- landfill gas
- biogas
- palm oil
- LFO
- HFO
- MFO
- paraffin oil
- crude oil
- diesel
- oil sludge

FIRING SYSTEM

- burner
- duct burner



Single path boiler



D-type Bi-drum boiler



Hot water heater



MULTI FUEL

Boiler plant operators need to be flexible in their fuel choices if they want to remain successful in today's world of fluctuating fuel and carbon emission prices, electricity demand and environmental standards.

In the future, carbon emissions will have to decrease and owners of new boiler plants are well advised to possibly switch to lower carbon emission fuels. Plants that can operate successfully on coal can simultaneously use local or seasonal biomass materials without the need for a boiler conversion.

ERK has a long history in multi-fuel boilers, with the first ones dating back to the 1950s. Today, we have more than one thousand multi-fuel boilers and heaters for mixtures of fossil fuels as well as fossil and renewable fuels.

more than

1200

REFERENCES

REFERENCE PARAMETERS

MAX 230 / 540 / 112
MW / °C / BAR

MIN 0,2 / 70 / 3
MW / °C / BAR

SPECIAL FEATURE

Six different fuels in a single boiler

WORKING FLUIDS

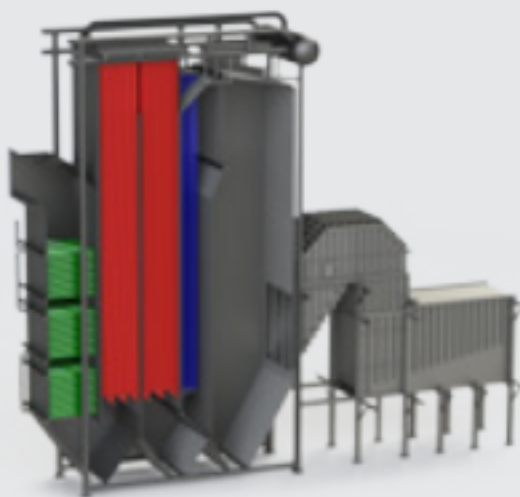
- hot water
- steam
- thermal oil
- hot air

FUELS

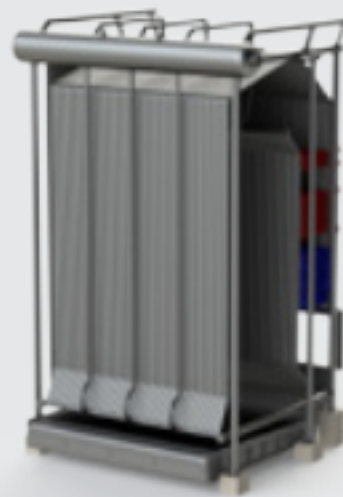
- fossil and renewable fuels
- coal with biomass
- coal and gas mixtures
- renewable fuel mixtures
- biomass with biogas
- waste fuel mixtures
- municipal solid waste with natural gas

FIRING SYSTEM

- reciprocating/vibrating/ push/step/travelling & underfeed grates
- water-cooled inclined grate
- rotary kiln
- spreader stoker
- bubbling fluidised bed
- circulating fluidised bed
- torsional combustion chamber
- gasifier
- gaseous/liquid fuel burner
- sludge burner
- dust and cigar burners
- torrefaction



External grate type boiler



Grate type boiler



Bubbling fluidised bed boiler



CONCENTRATED SOLAR POWER

100%

SUSTAINABLE

DESIGN CAPABILITIES

MAX	600 MW	/	580 °C	/	180 BAR
MIN	3 MW	/	120 °C	/	2 BAR

Concentrated solar power (CSP) plants are increasingly being built in the world's sunbelt to provide utility-scale renewable electricity as well as industrial process heat. One key benefit of CSP is the availability of mature thermal energy storage, which enables power generation even when the sun does not shine.

ERK applies its unique design expertise from other thermal systems to CSP equipment, thus maximising component performance, decreasing design risk, and shortening design times.

In addition to ERK's design competence, our extensive licensee network can provide these components to solar markets worldwide with a high local content and at the highest quality.

SPECIAL FEATURE

Modular designs for rapid installation; minimal parasitic loads

WORKING FLUIDS

- steam
- molten salt
- thermal oil
- hot water
- air
- liquid metals
- particles
- CO₂

Our CSP portfolio includes:

- Receivers for solar towers
- High-temperature fluid steam generators, e.g. molten salt / thermal oil
- Single or multi-fuel auxiliary boilers / heaters
- Rapid response boilers / heaters
- Boilers for CSP hybrid plants, e.g. HRSG for Integrated Solar Combined Cycle plants
- External steam superheaters to maximise cycle efficiency



Solar tower receiver



HTF steam generator



Back-up boiler



POWER TO HEAT

The increasing deployment of intermittent renewable energy sources, including photovoltaic and wind power in particular, gives rise to new challenges for the electricity grid.

Electricity prices are frequently close to zero or negative, and more flexible electricity consumers are therefore needed to stabilise the grid. This is exactly where power-to-heat (P2H) systems can help, and simultaneously substitute the use of fossil fuels.

ERK has pending patents that are based on a combination of electric heating and the combustion of gaseous, liquid or solid fuels.

Balancing intermittent renewables

SPECIAL FEATURE

Integrated P2H solutions enable the highest load change capability and lowest plant complexity

DESIGN CAPABILITIES

MAX 70 / 540 / 150
MW / °C / BAR

MIN 1 / 90 / 3
MW / °C / BAR

WORKING FLUIDS

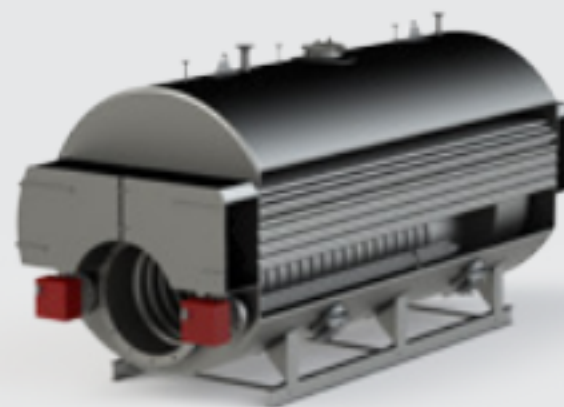
- hot water
- steam
- thermal oil

The benefits of combining these technologies are manifold. They include the use of only one boiler instead of two separate units, no thermal expansion constraints during rapid start-up, as the system is always warm, and also the parallel use of electric heating and conventional firing, depending on the electricity price.

The concept not only enables operators of fossil fuel-fired process heat units to lower their carbon emission intensity, but also to create additional revenues by participating in the electricity balancing market.



P2H integrated water tube boiler



P2H integrated fire tube boiler



MARINE SYSTEMS

Without marine transport modern global trade would be impossible. Also an increasing percentage of oil and gas production occurs offshore. Minimising the impact of these activities on the marine environment is important. It is ERK's aim that our solutions contribute to this goal.

ERK has a long track record in the marine industry, where we have installed hundreds of heat recovery boilers for engines and process equipment as well as directly fired boilers. Directly fired units include oil, gas and multi-fuel systems.

In addition to water tube boilers, ERK designs compact fire-tube boilers, directly fired and heat recovery boilers. We also design heat exchangers using our proprietary ERK Tube technology (see page 24). This technology induces turbulences, which increases heat transfer and reduces fouling.

more than

610

REFERENCES

REFERENCE PARAMETER

MAX 75 / 400 / 50
MW / °C / BAR

MIN 0,2 / 100 / 3
MW / °C / BAR

SPECIAL FEATURE

Dual pressure and multi-fuel firing

WORKING FLUIDS

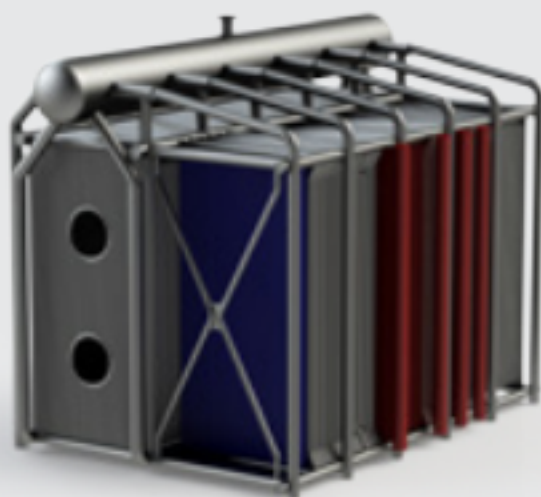
- hot water
- steam
- thermal oil

FUELS

- natural gas
- LFO
- HFO
- MFO
- oil sludge
- waste gases
- engine exhaust
- turbine exhaust
- waste heat
- coal

FIRING SYSTEM/ HEAT SOURCES

- solid and liquid fuel burners
- thermal oxidiser
- gas turbines
- engines
- thermal oxidiser



Oil & gas fired ERK boiler



Combi boiler (heat recovery and burner)



Heat recovery boiler

ERK FIRING SYSTEMS

more than

260



REFERENCES

We developed our own bubbling fluidised bed technology & have implemented numerous combustion systems.

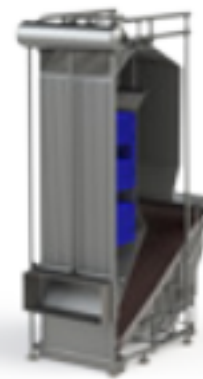
FUELS

- coal
- biomass
- fuel mixtures

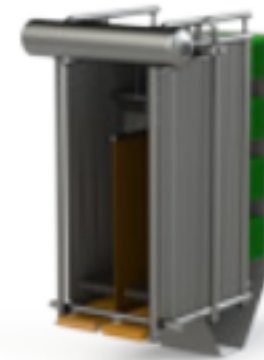
WORKING FLUIDS

- steam
- hot water
- thermal oil

Our first combustion system dates back to the 1950's and had a 2 megawatt water-cooled inclined grate for biomass firing. Thanks to our experience with in-house water circulation, the combustion system was integrated into the boiler's natural circulation to achieve optimal cooling of all components exposed to high temperatures.



Water-cooled inclined grate



Dual compartment fluidised bed

Since the first unit, many combustion systems have been manufactured with firing capacities of up to 64 megawatts.



TwinFluid® type fluidised bed

Maximum fuel efficiency, high reliability and low maintenance costs is what we design for.

In case one of ERK's own combustion systems is not ideally suited for your project, we can recommend one of our licensees, as nearly every combustion system available on the market is covered by our licensee network. This also applies to the reciprocating grates, vibrating grates, circulating fluidised beds and gasification.

This combined know-how places ERK among the leading fluidised bed technology provider, as independently verified.

WATER-COOLED INCLINED GRATE

more than

250

REFERENCES

REFERENCE PARAMETERS

MAX 64 / 110%
MWth / PEAK LOAD

MIN 0.4 / 35%
MWth / LOAD

Our experience with water-cooled inclined grates goes back decades and the technology has proven to be effective for many biomass and coal feedstocks.

As the name indicates, the grate is water-cooled and the water circulation is incorporated into the boiler's water circulation. The grate is a membrane wall construction with air nozzles for primary air supply. The angle of the grate is adapted to the fuel specification.

Until now, all installations had a fixed grate angle and we are now commercializing an improved version where we can adjust the grate angle during operation to use a variety of fuels.

SPECIAL FEATURE

integrated water circulation, high reliability and robust design

WORKING FLUIDS

- steam
- hot water
- thermal oil

FUELS

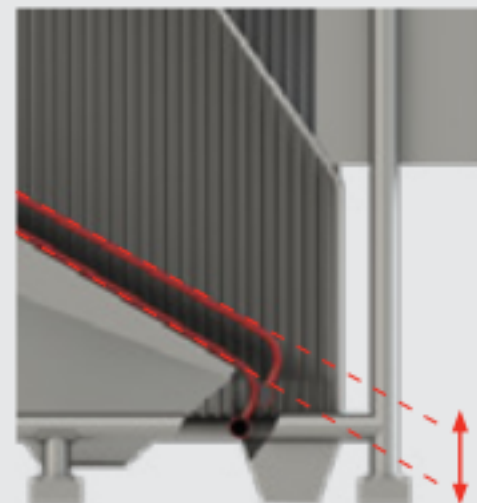
- wood
- bark
- palm waste
- bagasse
- peanut shells
- rice husk
- sunflower husk
- hard coal
- lignite
- waste materials
- fuel mixtures

SYSTEM SUITABLE FOR

- water tube boiler
- fire tube boiler
- combi boiler
- thermal oil heater
- hot gas generator



Water-cooled inclined grate



Water-cooled inclined grate with adjustable grate angle

ERK TUBES

Four criteria: compact, light, low-cost and fouling-optimised systems.

One of our recent innovations is the ERK Tube technology. Induced turbulences in the working media allows weight and volume reductions for boilers and heat exchangers of up to 50%. Additionally, the induced turbulences reduce particles and dust settling on the tube walls, thus significantly reducing fouling. We design according to the following four criteria: compact, light, low cost, and optimised fouling.

more than

1070



REFERENCES

ERK TUBE BENEFITS

- high heat transfer
- compact dimensions
- lower corrosion
- significantly less cleaning
- low fouling tendency
- smaller heating surfaces
- reduced unit cost



ERK holds multiple patents on the ERK Tube technology covering various applications, designs, and manufacturing processes.

Over the past few years, we have realised, in partnership with our licensees, more than 1070 ERK Tube units in stationary and marine applications. The applications spread across multiple industries, including energy, oil and gas, chemical, food and the marine industry. Currently, we are expanding into other industries, such as automotive and aviation.

REFERENCE APPLICATIONS & PRODUCTS

POWER

- water tube boilers
- smoke tube boilers
- evaporators
- shell & tube heat exchangers
- condensers
- combustion air preheater

INDUSTRY

- waste heat boilers
- water tube boilers
- fire tube boilers (directly fired & heat recovery)
- thermal oxidisers
- air pre-heaters

CHEMICALS

- heaters (gas & liquids)
- water tube boilers
- shell & tube heat exchangers
- waste heat recovery systems
- reactors
- acid concentration units

NAVAL/MARINE

- waste heat boilers
- water tube boilers
- shell & tube heat exchangers

ERK TUBE BENEFITS

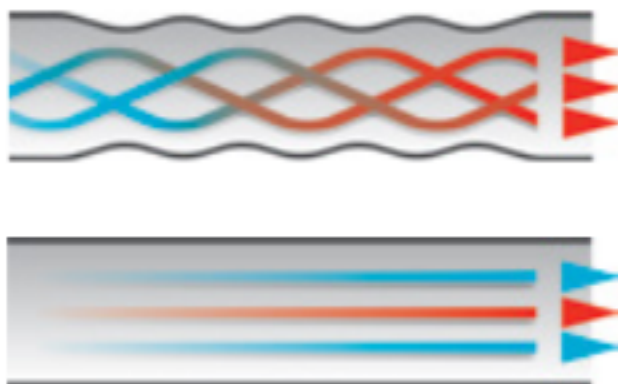
ERK Tube technology increases the heat transfer coefficient by a factor of two to three compared with plain tubes.

FLEXIBILITY IN MATERIAL & GEOMETRY

The manufacturing of ERK Tubes is not restricted to a single material or particular geometry. We can produce any kind of ductile material such as steel, different types of stainless steel, aluminium, copper and copper alloys, titanium and tantalum. Various dimple structures have been designed, produced and thoroughly tested.



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HIGHER EFFICIENCY

The structure has an effect on the fluid dynamics. The dimples on the tube affect the boundary layers in such a way that tangential and radial mixing motions occur. As a result, a turbulent flow arises early on inside and outside the tube, causing the heat transfer to increase.

Due to their structured surfaces, ERK Tubes have a relatively low resistance to thermal-related expansion compared with plain tubes and possess special strength properties.

LESS FOULING

Particles that are present within the media settle at a much lower rate on the tube walls because a significant proportion is carried away by the turbulent flow, thus allowing longer operational cycles, less maintenance, significantly less cleaning and less downtime.



RESEARCH & DEVELOPMENT

We are continuously investing in research and development projects (R&D).

Since 1995, we have had two key R&D projects annually, which were of major significance for our company's future development. We invest a significant amount of our annual turnover in R&D activities and receive funding from the German state and federal governments as well as international funding agencies.

Our R&D activities are always focused on trends that we anticipate on the energy market. Of high interest to us are optimised products and concepts for a low carbon economy, urbanisation, and globalisation.

SPECIALISED INDUSTRY & RESEARCH PARTNERS:

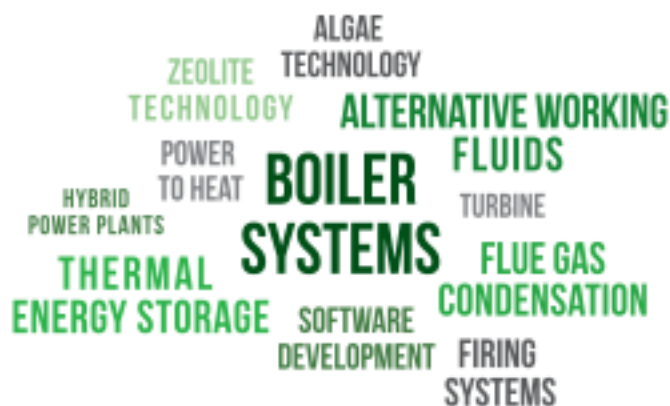
- University of Applied Sciences Wildau (Germany)
- Technical University Berlin (Germany)
- Technical University Cottbus (Germany)
- HTW Berlin (Germany)
- German Aerospace Centre (DLR)
- University of Technology, Sydney (Australia)



As a result of our efforts, we were officially recognised as an innovative company and received the German "Innovative through research" award.

THE FOLLOWING POINTS ARE A SUMMARY OF OUR RESEARCH ACTIVITIES AND INTERESTS:

- Flue gas condensation
- Fouling and lifecycle cost reduction
- Hybrid power plants
- Power-to-heat systems
- Heat pump integration in district heating and cogeneration plants
- Alternative working fluids (CO₂ and particles)
- Micro-scale power generation in remote areas
- Gas turbine inlet air-cooling with optimised heat recovery systems
- Zeolite technology
- Algae technology
- Firing systems
- Boiler systems for bioenergy carbon capture
- Software development to combine thermo-dynamic, strength & fluid dynamic design
- Turbine for low temperature heat sources
- Micro ERK Tube technology
- Thermal energy storage systems



R&D IN COMMERCIALISATION

The pathway from research to a commercial product is long and requires not only technical expertise but also finance and management skills.

Over the past few decades ERK has commercialised many of its R&D projects, including evaporator flag tubes, parallel flow boiler design, bubbling fluidised bed combustion systems, and ERK Tube technology. We are now applying this expertise to the next generation of products.



FLUE GAS CONDENSATION

With flue gas condensation we can achieve maximum plant performance and minimal emissions. We integrate the recovered energy back into the plant cycle. ERK Tube technology enables us to design very compact and low-cost flue gas condensers.



ZEOLITE TECHNOLOGY

Zeolites (hot stones) can be heated up to 400°C when exposed to water. The zeolites store the energy thermochemically. They can be used for energy storage, flue gas condensation, and gas turbine inlet air-cooling. Zeolite units are even mobile.



CONTAINER POWER PLANTS

We provide a solution for 250-500 kWe remote power supply, that uses biomass and waste material in remote regions. Thus, we provide renewable/low carbon intensity power, substitute diesel fuel, improve waste management and use local fuel sources.



ALGAE TECHNOLOGY

Algae systems couple energy systems with the food, pharmaceutical and chemical industries. Growing algae requires CO₂ and sunlight. Through the combination of boiler and algae systems the waste product CO₂ can be used and algae can be sold.

SUSTAINABLE DEVELOPMENT

With more than 1,030 biomass and waste fuelled boilers, and over 270 heat recovery systems installed, we have taken the right steps towards a greener future.

Over the next few decades, global energy systems need to undergo a radical transformation to limit greenhouse gas emissions and the associated consequences of global warming.

National governments have agreed on a low-carbon energy future. Meanwhile, policies are being developed to manage the transition.

ERK actively participates in this transformation towards the decarbonisation of power and process heat supply. ERK is already on the right path to achieve its contribution to the energy transition.

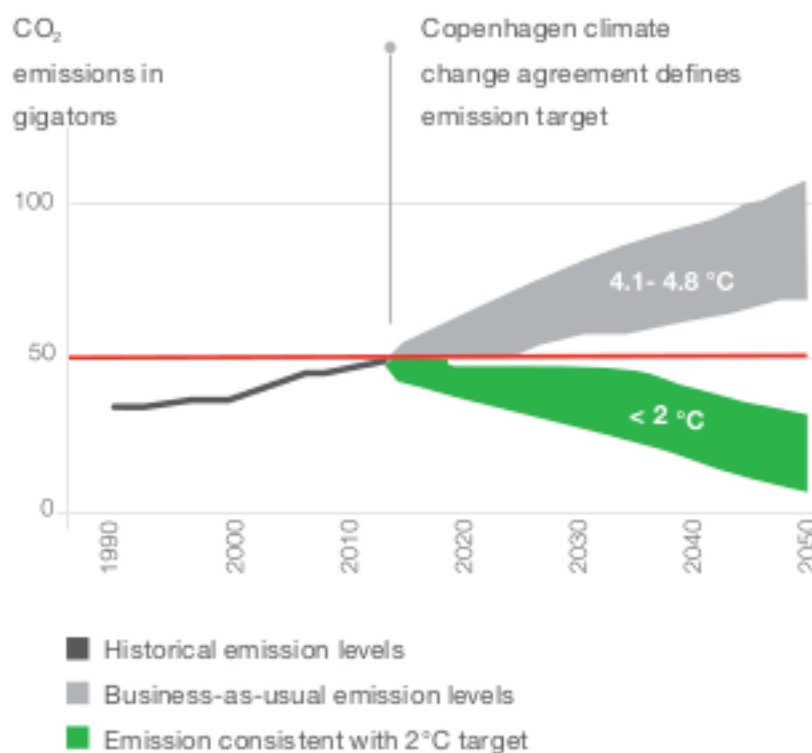
We expect to further improve our position with the expansion of our renewable energy portfolio and will put a strong focus on energy efficiency.

OUR FOUR PATHWAYS TO THE DECARBONISATION OF POWER:

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To achieve the target of staying below a 2°C temperature rise we must drastically reduce the amount of CO₂ emissions. (green)

Continuing as we have so far would result in a temperature rise of up to 4.8°C. (grey)



TO REACH THE 2°C TARGET, ERK PROVIDES THE FOLLOWING TECHNOLOGIES:

- 1 BROAD RENEWABLE ENERGY PORTFOLIO** consisting of biomass, concentrated solar thermal, geothermal, power-to-heat and energy from waste technologies as well as thermal energy storage.
- 2 HEAT RECOVERY** systems for a broad range of exhaust gases, from clean gas turbine/engine exhaust to complicated exhaust sources, such as in steel or cement plants.
- 3 MULTI-FUEL** boilers to use locally and seasonally available renewable fuels and minimisation of fossil fuel consumption.
- 4 HIGHEST EFFICIENCY** fossil fuel-fired boilers to minimise greenhouse gas emissions in applications where renewable energy sources are not available or viable.

ERK LICENSEES WORLDWIDE

In addition to the technical expertise comes the financial strength and skilled labour force of the ERK licensee network, which consists of an annual overall turnover of more than 1.6 billion Euros and around 10,000 employees.



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ERK LICENSEE NETWORK

ERK holds a global licensee network of more than 30 well-established high-quality boiler and power plant suppliers. Through this network we can provide tailor-made solutions to even the remotest of places.


We maintain long-lasting relationships with our licensees, some of them already lasting for over half a century.

Our extensive two-way communication with our partners ensures we continually learn from the

experience gained with every project. Hence, each ERK boiler is the sum of more than 6,000 global installations.

Besides the design know-how itself, we share our experience in terms of manufacturing, transport, assembly, installation, and operation.

This continuous exchange of information ensures that ERK remains at the forefront of the industry.



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