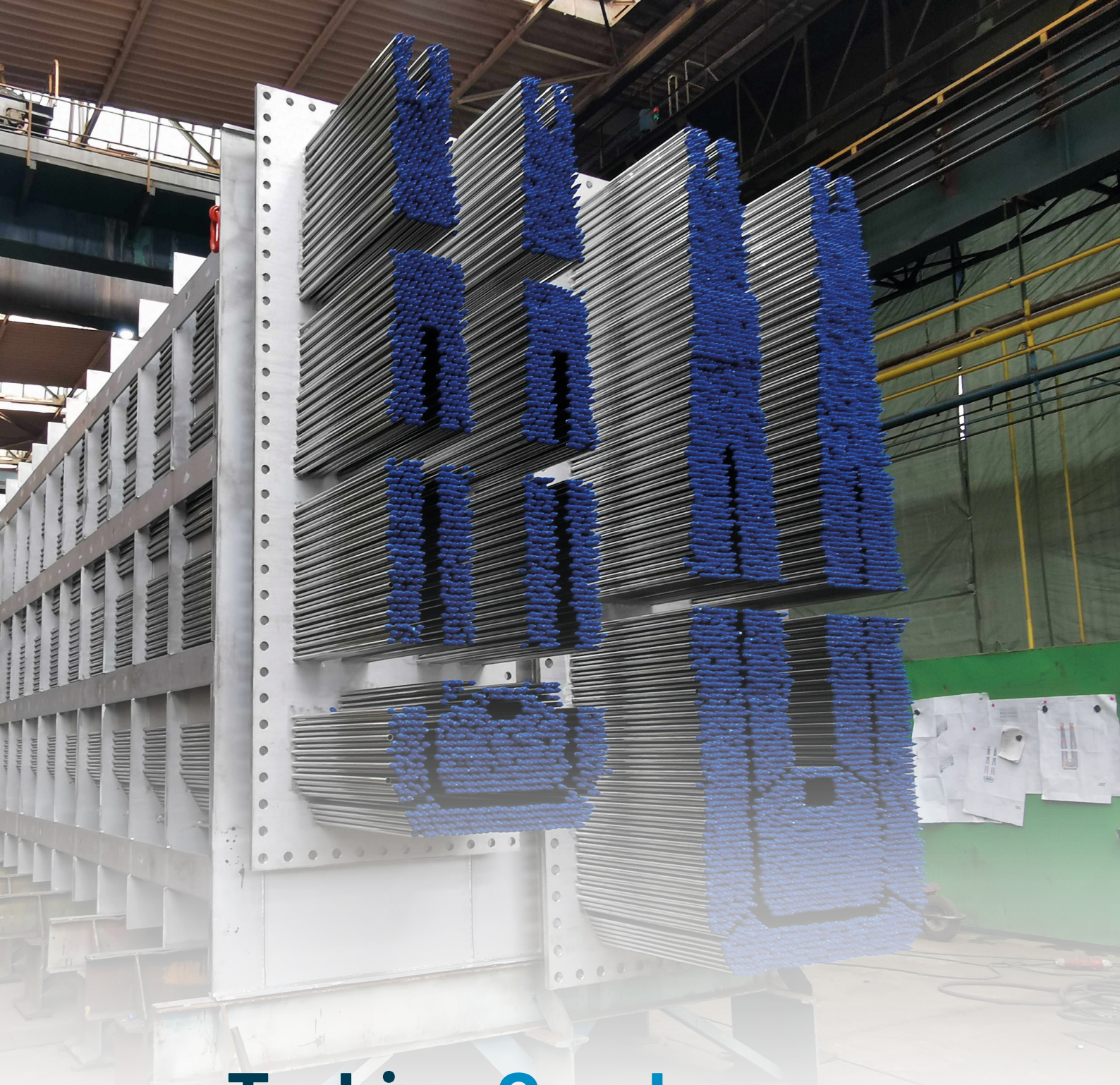


Turbine Condensers

Streamlined for high performance

BALCKE DÜRR

Optimized for efficient operations

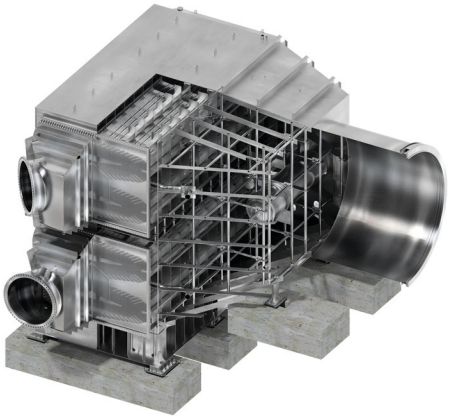
NEM Balcke-Dürr is the **world's leading** manufacturer and supplier of **condensers** with the majority of our references in the geothermal energy sector.

NEM Balcke-Dürr turbine condensers are among the **most efficient** in the world. With decades of expertise in condenser design, we continuously improved our products through close collaboration with power plant operators. This ensures high operational reliability and top-tier build quality.

We have a wide range of water-cooled surface condensers, designed to operate effectively under different operating conditions and in different applications such as **nuclear** power, **geothermal** energy, **combined cycle** plants or others.

We supply **high performance condensers** characterized by a **tube bundle design (TEPEE)** that minimizes pressure drop, maximizing efficiency and power plant output.

For combined cycle power plants, we provide **space-saving deaerating condensers**, which combine the functions of feed-water deaerators and turbine condensers into a single, integrated component.



3D model of a deaerating condenser with patented TEPEE tube bundle design

Benefits

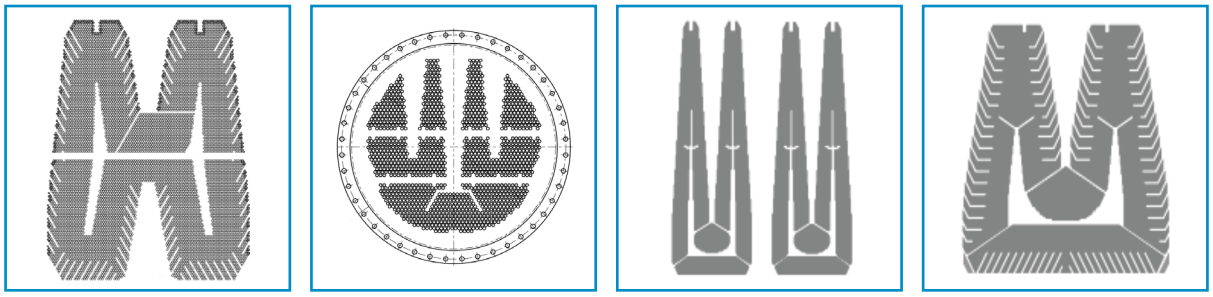
- Configuration concepts for turbines with vertical and horizontal exhaust steam flow available
- Familiar with condensers with different type of tube materials such as: stainless steel, titanium and others
- Providing a complete cold-end solution, including the condenser, cooling tower, and cooling water circuit, along with their installation
- Increased output in existing power plants through modular condenser replacement
- Expertise in engineering and manufacturing of condensers for more than 100 years
- Patented tube bundle with performance-optimized design (TEPEE)

Condenser in the manufacturing process

Technology & Features

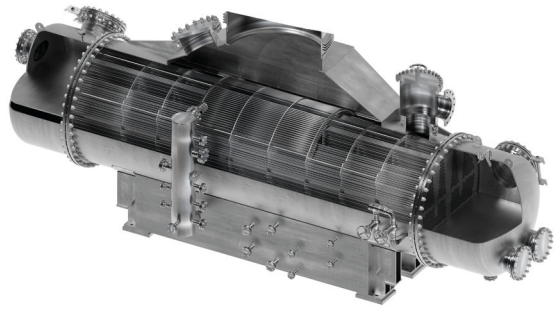
Our turbine condensers are equipped with **TEPEE tube bundles**. Depending on the tube material, this design is up to **20% more efficient** than the HEI Standard and offers significant advantages:

- **Increased power plant output**, as lower condenser pressures can be achieved
- **Savings in investment costs**, as smaller cooling surfaces can be installed
- **Efficient removal** of **non-condensable gasses**



Cross sections through TEPEE tube bundle customized to fit your application

Our bundle design generates an ideal steam flow with **minimal pressure drop, high condensation rate** and **effective deaeration.**



3D Model of a round condenser

Our condensers are engineered for **optimal thermohydraulics**, achieved through rigorous testing and decades of manufacturing expertise.

NEM Balcke-Dürr offers comprehensive expertise in jobsite **installation**, commissioning, and performance testing ensures superior service for our customers.

Application

Condenser installed at geothermal power plant in Iceland for district heating and cooling water operation

BALCKE DÜRR

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