

# Powder cooler – new machine integration into existing units

Tailor-made integration into existing units



thyssenkrupp

When your powder cooler is at the end of the lifecycle, thyssenkrupp offers the process knowledge, the proven machinery and qualified staff to integrate a new powder cooler into the existing unit. thyssenkrupp experts analyze the current situation and offer the best suitable solution for the customers project.

If required, thyssenkrupp can offer all stages including disassembly and assembly of the specific items.

thyssenkrupp's revamps teams have engineers and technicians based in Germany as well worldwide. thyssenkrupp has a huge experience and references in the field of powder cooling before storage.

With our different cooler sizes, we are able to cool a big spectrum of different material quantities. Besides the delivery, we are specialized to integrate our components into existing units on EPC basis.

## Service advantages

- Experienced team with high machine relevant knowledge
- OEM parts to guarantee quality
- High precision cooler manufacturing at thyssenkrupp workshop in Ennigerloh, Germany
- All tasks in one hand, minimize customer's downtimes of machines
- Together with our Field Service team we offer a 360° Service for our customers



New thyssenkrupp powder cooler



Powder cooler during disassembly and assembly phase



## Your contact:

**Tim Hücking**

[tim.huecking@thyssenkrupp.com](mailto:tim.huecking@thyssenkrupp.com)

T: +49 2525 99-4233



Revamps & outages

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# 360° Service

Service solutions throughout the entire life cycle of your plant



thyssenkrupp



## Parts & supply management

We are the experts when it comes to the supply with spare and wear parts for your plant – over the entire lifetime, at the right time and with the right quality.

### Spare parts supply

- All spare parts and components for your asset in OEM quality
- Always state of the art technology with guaranteed functionality
- Attractive frame contracts and supply agreements

### Wear parts solutions

- Development of wear parts according to your requirements
- Individual solutions in regards of quality and performance
- Innovative wear parts concepts

### Advanced parts solutions

- Engineering and manufacturing of individual spare parts
- Continuous further development of spare parts and components in order to increase the performance of your plant
- Spare and wear parts for plants genuinely not developed by thyssenkrupp



## Field & workshop services

We offer you local assistance when it comes to overhauling spare and wear parts, or when maintenance and servicing is needed.

### Technical inspections

- Forward-looking inspections of machines and components

### Repairs and field support

- Fulltime site support and advice after handover of equipment
- Fault identification and emergency repair of components
- Installation and dismantling
- Equipment adjustments and alignments

### Workshop services

- Local fabrication of spare parts
- Refurbishment and supply of thyssenkrupp and third party components

### Operator & maintenance training courses

- Customer training for all areas of thyssenkrupp portfolio
- Utilization of product experts within thyssenkrupp's global network



## Revamps & outages

Over the course of time, demands change. In order to meet these changed demands, we offer you custom-tailored revamp solutions.

### Analysis, engineering and manufacturing

- Plant status and environmental analysis and assessment
- Feasibility studies
- Basic, front-end and detail engineering
- Manufacturing of individual equipment

### Plant improvements

- Custom-tailored revamps and retrofitting solutions
- Debottlenecking through capacity extensions
- Efficiency enhancement through modernization and upgrades
- Emission reduction
- Safety and integrity upgrades
- Reliability improvement

### Revamps execution up to EPC

- Execution of complex revamp and outage projects
- Execution of EPC revamps projects
- Custom-tailored risk and profit sharing models

### Turnaround management

- Management of plant turnarounds



## Asset management

We offer you a holistic asset management approach in order to reduce the overall operating expenses of your plant.

### Consulting & audits

- Evaluation and assessment of effectiveness and efficiency
- Process mapping and gap analysis
- Derivation and supervision of improvement measures

### Technical guidance

- Implementation of improvement measures
- Technical improvement of existing machines and components
- Strategic analysis and future planning
- Improvement of processes and procedures

### Operation & maintenance contracts

- Complete or partial take-over of maintenance and/or operations activities
- One-stop operation and maintenance solutions including parts and consumables
- Custom-tailored business models focusing on a win-win situation

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