

Inspection and maintenance

So that the plant just keeps running and running ...



thyssenkrupp

Maximum plant availability is of decisive importance for the economic operation of a cement factory. In order to ensure this, we offer you regular inspections and maintenance by our trained specialist personnel. Our range of services includes numerous measures that can be carried out individually or combined according to your requirements. In addition, we can provide you with assistance through our reliable repair service – even for plants from other manufacturers.

Inspection and preventive maintenance

By way of preparation for repair and maintenance work, our experts inspect your machines and plants. Our services also include measurement, analysis and the evaluation of temperature and vibration data.

On request, we can carry out online monitoring. Naturally, our portfolio also includes the discussion and documentation of the results, as well as the drawing up of repair plans.

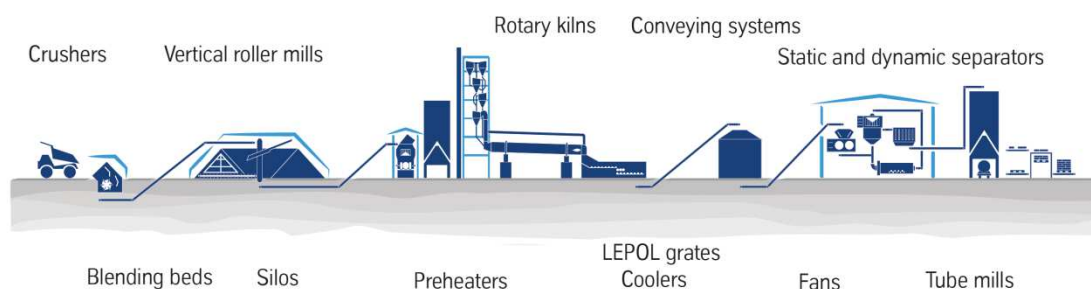
Repair service

We document the current condition of your plant and draw up damage-elimination plans. We use original thyssenkrupp spare parts both in plants from our company and plants from other manufacturers.

We supervise and perform repair welding on critical components of rotary kilns, tube mills and rotary drums. What's more, our experts can offer you help and advice during recommissioning.

Service advantages

- Inspections & preventive maintenance
 - Precise knowledge of the current condition of the plant
 - Requirement-oriented purchasing of spare parts and planning of plant stoppages
 - Avoidance of consequential damage
 - Increased plant availability
- Repair service
 - Temporary operation until the spare parts arrive
 - One-year warranty in the case of original spare parts
 - Rapid and reliable repair service from our experts
 - Considerable reduction in downtime and consequential damage



Your contact:

Udo Feldotto

udo.feldotto@thyssenkrupp.com

T: +49 2525 992986



Field & workshop
services

engineering.tomorrow.together.

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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