Our experts use non-destructive material testing (NDT) methods to test the current material properties of plant components that are particularly exposed to stress. This is done without damaging the components concerned. Our processes can be used for preventive maintenance purposes in the entire production line.

With non-destructive testing, we examine the material structure properties of end walls, supporting rollers, tyres and similar plant components. In this way, cracks and material inhomogeneities are reliably detected.

Our many years of experience of magnetic-particle testing, ultrasonic testing and eddy current testing go into our non-destructive testing: Magnetic-particle testing is used to detect surface imperfections even on components with complex geometry.

Ultrasonic testing reveals internal and external imperfections, particularly in the case of weld seams, forged pieces and castings. Eddy current testing locates surface imperfections or subsurface imperfections, particularly at the tooth flanks of girth gear and pinion drives.

If damage is found by means of our various testing methods, countermeasures can be initiated in good time. Our experts provide decision guidance with regard to further operation, refurbishment or the best time to replace components. This is to ensure the operational reliability and availability of your plant.

Service advantages

- Preventive checking of weld joints, end walls and manholes
- Preventive crack testing on crushers and hammer mill shafts, on stressed plates, tooth gearing, tyres and on cast components
- Prior cleaning of the tooth gearing is not necessary
- No contamination of the lubricants by testing media
- Assessment of the measurement results by our design experts
- Decision guidance with regard to further operation, refurbishment or the best time to replace components

In the case of eddy current testing, large tooth gearing does not have to be cleaned in advance. Therefore our customers benefit from a considerable saving of time.

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engineering. tomorrow. together.
360° Service
Service solutions throughout the entire life cycle of your plant

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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