

Digital Inventory Control

Transparent stockyards through smart sensors



Stock level transparency is crucial for more efficient production processes. Manual stockpile surveying in inventory control is very time-consuming and consequently very cost-intensive. It is also very imprecise and leads to inefficiencies in the whole process chain. Our smart Digital Inventory Control System allows you to solve all these issues.

How it works

A radar sensor positioned above the stockyard continuously scans the stockpile beneath in 3D. Our stockyard software calculates the volume and mass via material densities.

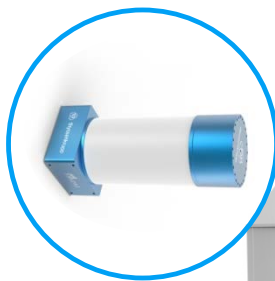
Why radar?

The radar sensors we use are designed for very demanding environments, such as those found in the cement or mining industry.

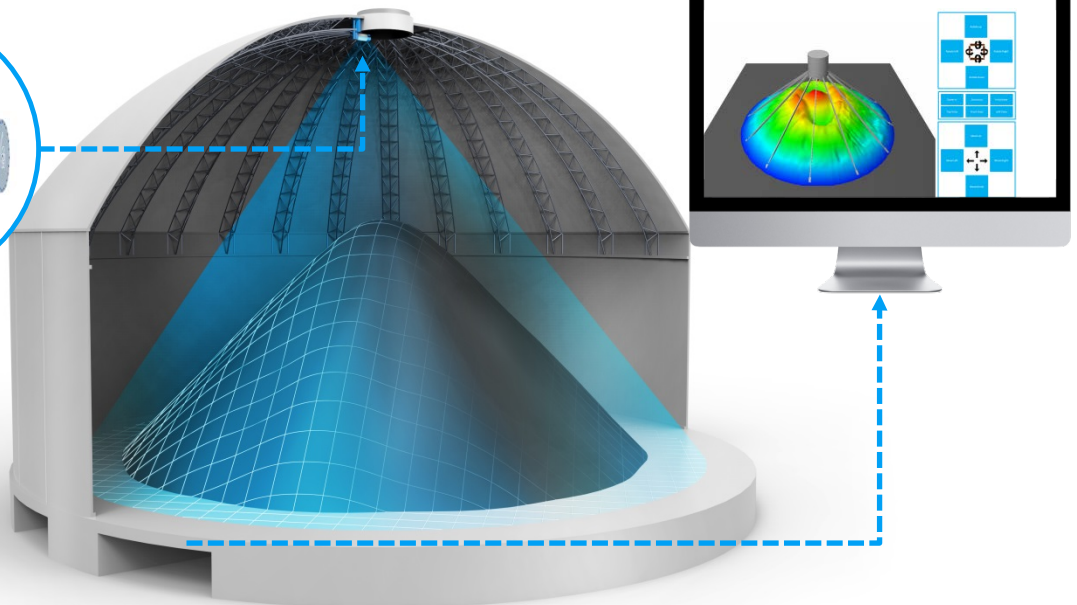
They still deliver reliable signals even when impacted by dirt, water, dust or temperature fluctuations or physical stress. This distinguishes them from other technologies such as lasers or ultrasonic sensors.

How you benefit:

- Time-saving: Automatic & continuous measurements
- Transparency: Precise 3D measurement (>95%)
- Easy integration: Standard industrial interfaces for subsequent processes
- Reliable: Even in very dusty conditions



Radar sensor iSDR
(powered by indurad)



Scan of pile or silo

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digitalized expertise

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 of 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 revamp 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 operation 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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