



When It Really Matters

METZEN in Action: Safe, Fast, Solution-Oriented – Emergency Deployment under Extreme Conditions

Shortly before Christmas, a dramatic incident occurred at an agricultural cooperative: two silos containing a total of approximately 2,800 tonnes of grain partially collapsed. An emergency case with enormous damage potential. METZEN was on-site within a very short time to assess the situation and develop a solution for the complex and highly hazardous dismantling. Together with long-standing partners and under extreme weather conditions, a safe dismantling and securing of the entire facility was achieved in record time.

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Challenge Collapse, Moisture, and Unpredictable Risks

The collapse of two silos containing 1,100 and 1,700 tonnes of wheat and barley presented an unprecedented challenge.

- **Time Pressure Due to Moisture:** Continuous December rainfall caused the stored grain to start germinating rapidly.
- **Hazardous Situation:** Debris was under tension, and no predefined safe procedure existed.
- **Extreme Weather Conditions:** Rain, frost, and icy temperatures severely complicated work in the aerial work platforms.
- **High Complexity:** Conveyors, walkways, and elevators threatened uncontrolled collapse and needed securing.

A standard solution was impossible – experience, speed, and precision were essential.

Solution Precision, Expertise, and Maximum Team Performance

METZEN, together with partners, developed a bespoke strategy for the safe dismantling of the damaged facility.

- **Joint Deployment Planning:** In close cooperation with Agravis, Franz Rurberg, Buir-Bliesheimer, a structural engineering firm, and crane and specialised vehicle providers, a comprehensive action plan was created.
- **Coordinated Dismantling:** Our team of up to 8 technicians dismantled the silos, conveyors, and steel structures in just 6 weeks despite adverse conditions.
- **Crane Operations at the Highest Level:** Five cranes, including a 650-tonne unit, worked in parallel to control damaged components and safely lower debris and equipment.
- **Flexible Response:** Ongoing risk analyses and adjustments ensured that no further damage occurred to the overall facility.

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Result Safety, Speed, and Partnership

With our motto “When It Really Matters”, we demonstrated that METZEN delivers the highest reliability even in extreme situations.

- **Rapid Deployment:** Immediate availability and a well-coordinated expert team.
- **Complex Task Completed:** Safe dismantling under extreme conditions in record time.
- **Partnership-Based Execution:** Effective collaboration with long-standing partners and engineering offices.
- **Maximum Safety:** Risk minimisation despite unpredictable hazards.
- **Flexibility:** Continuous adjustments and precise coordination in a constantly changing environment.

METZEN stands for precise, fast, and decisive solutions in industrial plant engineering – even under extreme conditions. Our senior engineers are happy to advise on your project. We deliver results – from risk analysis to implementation.

Highlights

- **Rapid Response:** The first experts were on-site within 30 minutes of the report.
- **High-Level Teamwork:** Deployment of up to 8 technicians, 5 heavy-duty cranes (250–650 t), and several partner companies.
- **Complex Dismantling:** Silos, conveyors, and steel structures were dismantled in just 6 weeks under extremely challenging conditions.
- **Maximum Safety:** Planning and execution despite high tensions in the debris, unforeseen risks, and extreme cold.

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