



## Food

# Maximum Process Reliability and Increased Production Efficiency for the Fine Foods Industry

A leading manufacturer of dessert jars sought to achieve significantly higher production output for greater economic efficiency. Three key challenges were central to the project: maintaining an unbroken cold chain, handling delicate glass containers gently to prevent breakage, and achieving high cycle rates for maximum throughput. METZEN integrated all requirements into a comprehensive, tailored solution that ensured smooth product handling and process-reliable operations. A customised automation system was developed, combining maximum production performance with reliable handling and the highest hygiene standards. A crucial success factor was the seamless coordination of external specialists. Thanks to a compact, precisely planned installation and commissioning phase, the system was quickly brought into operation. METZEN also actively supported the ramp-up phase, ensuring a smooth transition to regular production.

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### Challenge

Balancing strict cold chain adherence with absolute prevention of glass breakage was a major hurdle. At the same time, the high production volume required a combination of high speed and gentle handling. Solutions needed to ensure both process reliability and production efficiency. Additionally, rapid integration of external specialists, compact installation and commissioning, and support during the start-up phase were essential.

- Achieving high cycle rates while maintaining gentle handling to prevent breakage and protect the cold chain.
- Ensuring process reliability and production efficiency in the competitive fine foods industry.
- Fast integration of external specialists into the production process.
- Compact installation and commissioning within a short timeframe.
- Support during ramp-up to ensure smooth operation.

### Solution

#### From Vision to Peak Performance

Through precise planning and customised technology, METZEN delivered an automation solution that reliably combined delicate product handling with high production speed. The individually designed system met all requirements for efficiency, process reliability, and product protection – tailored exactly to the customer's needs.

- **Strategic Planning:** Detailed analysis of all production and construction conditions.
- **Technical Solution:** Gentle yet fast handling of the jars.
- **Integration of Specialist Partners:** Collaboration to develop the optimal solution.
- Compact, Efficient Installation and Commissioning.
- Support During Ramp-Up Phase.

### Result

A highly efficient production process that combines quality, speed, and safety at the highest level – giving the customer a clear competitive advantage. The automated solution ensured reliable cold chain adherence, reduced glass breakage, and noticeably improved process efficiency. Eliminating one full-time position per shift significantly reduced production costs – a key contribution to enhanced competitiveness.

### Project Conclusion

The customised automation solution achieved high cycle rates, reliable cold chain management, and gentle handling of glass containers – all while reducing production costs and maximising process efficiency. With METZEN as your partner, you benefit from innovative solutions that perfectly combine economic efficiency and operational safety.

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### Highlights

- **Enhanced Competitiveness:** Efficient and competitive production design with gentle yet fast handling of jars.
- **Strategic Planning:** Analysis of all production and construction conditions.
- **Optimised Process Reliability and Cold Chain:** Specialised construction and intelligent automation maintained the cold chain and reliably prevented glass breakage.
- **Cost Savings through Efficiency:** One full-time position saved per shift, reducing personnel and production costs significantly.
- **Integration of Specialist Partners:** Collaboration to develop the optimal solution.

### Contact

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