



*Chemical Industry*

## CASE STUDY

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Enhancing Detergent Tablet  
Production with Faster, More  
Reliable IBC Discharge Solutions

*Recognized Leaders in Powder Processing*

[www.cone valve.com](http://www.cone valve.com)

# *One Systems That Does It All*



Standard ISL Technologies components are typically available within two to three weeks, and even customized configurations—can be delivered in under six weeks due to ISL Technologies’ efficient production and streamlined design processes.



# Enhancing Detergent Tablet Production with Faster, More Reliable IBC Discharge Solutions

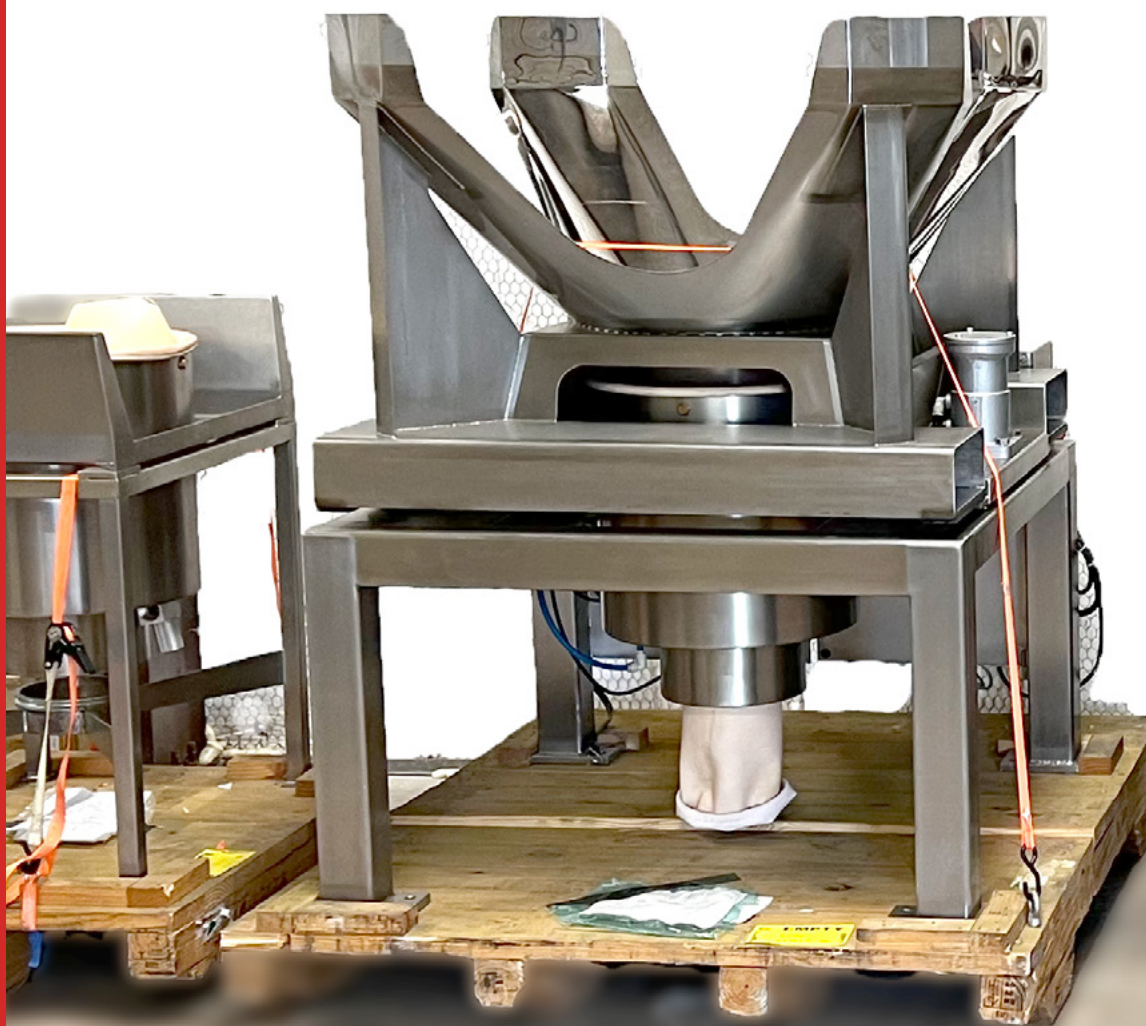
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## CLIENT

The client is a manufacturer specializing in a range of detergent tablets for both laundry and dishwashing applications. Their production process involves filling approximately 100 Intermediate Bulk Containers (IBCs) with powdered detergent, which is then fed into tablet press machines for final product formation.







*With our collective expertise and innovative approach, we aim to address the specific challenges and requirements of handling bulk solids in a manner that is efficient, reliable, and tailored to the needs of each industry.*




# OBJECTIVE

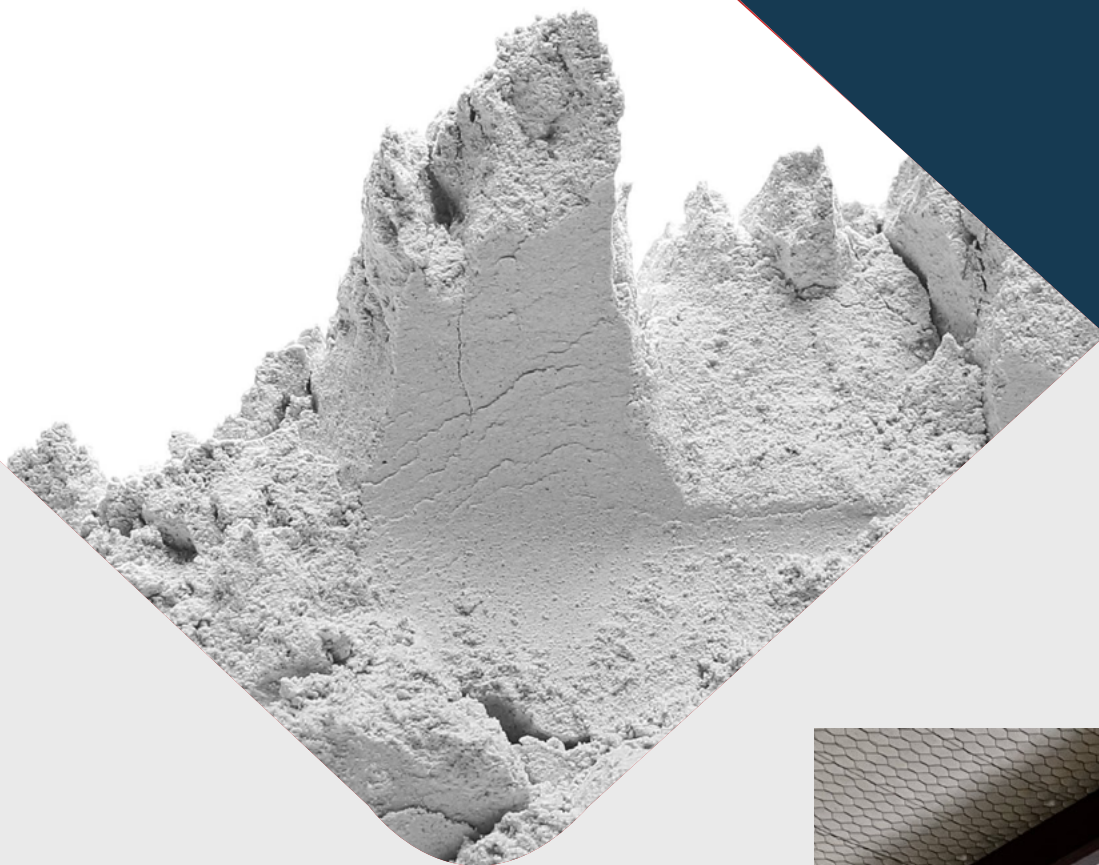
The client's existing powder handling system utilized a competitor's cone valve technology across 12 discharge stations.

Seeking improvements in product handling efficiency and system reliability, ISL Technologies conducted an on-site demonstration to showcase the performance advantages of its own solutions.

Following the demonstration, the client indicated plans to expand the production system and subsequently placed an order for two ISL Technologies "Upgrade" discharge stations.

Key factors influencing this decision included enhanced flow control, more consistent product performance, and significantly reduced lead times—ISL Technologies offered a turnaround of 4 to 5 weeks compared to the competitor's 26-week delivery period.





## SOLUTIONS

To address the specific handling characteristics of the powdered detergent—known for its challenging flow behavior—ISL Technologies recommended its standard “Upgrade” discharge station, enhanced with a vibratory locator frame. This addition facilitates consistent product flow during discharge, preventing blockages and ensuring uniform feeding into the tablet press.

The standard control panel was further customized to meet the client’s operational preferences, incorporating both automatic and manual control options for the cone valve and vibration functions. This flexibility enables operators to adjust the system to real-time processing needs, optimizing performance and throughput.





## *Why ISL Technologies*

With 30+ years of expertise, ISL Technologies delivers tailored, performance-driven solutions for complex powder processing challenges across diverse industries, embracing every problem with custom engineering and a commitment to reliability.



### *Your Challenges are Our Challenges*

ISL Technologies's IBC systems reduce cross-contamination and allergens by blending in-container, eliminating clean-downs, minimizing downtime, enhancing safety, and enabling flexible, cost-effective batch production with any recipe at any time.

### *How Can We Help?*

ISL Technologies's unique Cone Valve IBC technology protects blends during processing and transfer, ensuring consistent quality, optimized flow, and maximum efficiency—delivering trusted, proven solutions that satisfy clients every time.





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