

2026 CASE STUDY

Protecting Product Integrity with Gentle Conveying

A custom TipTrak® bucket elevator system for Catalyst Trading Company

OVERVIEW

When handling fragile materials, conveying is more than just transport — it directly impacts product quality.

For Catalyst Trading Company, maintaining the integrity of their product throughout the handling process was critical. Even minimal degradation could reduce product value and affect downstream performance.

To address this, UniTrak supplied a complete material handling system centered around a TipTrak® bucket elevator, designed specifically for controlled, gentle conveying.

CHALLENGE

Catalyst has a highly friable material that can degrade easily under mechanical stress. Conventional conveying methods can introduce unnecessary agitation and impact, leading to:

- Particle breakdown
- Material loss
- Inconsistent product quality

The application required a solution capable of elevating material while minimizing disturbance from infeed through to discharge.



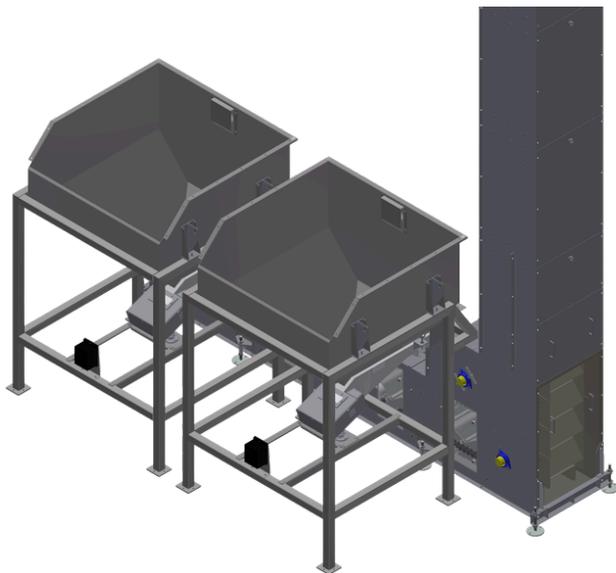
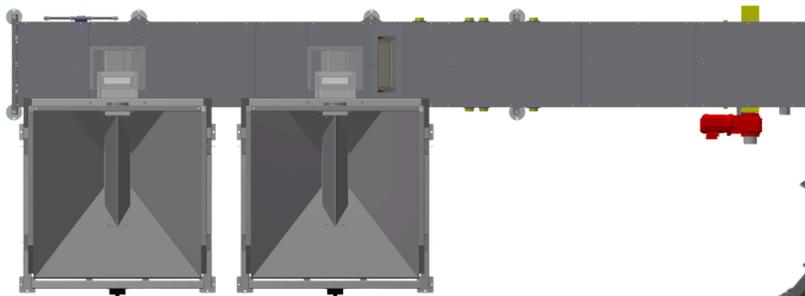
SOLUTION

UniTrak engineered and supplied a fully integrated system tailored to the application.

System Components:

- 60" square infeed hoppers
- Vibratory feeders
- Diverter valve
- TipTrak® bucket elevator
- Dust collection ports for improved dust control
- Bucket knocker to assist with discharge
- Local control panel for operator control

Each component was selected to ensure consistent material flow, controlled handling, and reliable operation.





RESULTS

The installed system provided Catalyst Trading Company with a reliable and efficient solution for handling a sensitive material.

Key outcomes included:

- Reduced material degradation
- Improved product consistency
- Controlled and predictable material flow
- Cleaner operation with integrated dust management

