



## Innovative Platform System Provides Additional Capacity Without Building Expansion

### Situation:

A production supervisor in the cereal manufacturing industry needed to expand his company's manufacturing capacity.

- They wanted to enhance their product line by adding new equipment but were limited on physical space at their facility.

### Sterling Solution:

Sterling performed structural engineering services required to design a hanging platform for a particulate room. Sterling also performed structural services on a hanging structural support for vibratory conveyors and catwalks and a hanger support for a 13' rough top belt conveyor. This included the following:

- Three-dimensional computer-assisted structural analysis of the steel platforms and hangers for both particulate room and vibratory catwalk. Structural design of members, connections and attachment details.
- Checked the existing structure for additional load and reinforced the structural members, if necessary.
- Prepared design drawings along with the necessary specifications and details for a particulate room, a vibratory catwalk, and a conveyor support hanger system.
- Prepare a set of design drawings with Structural Engineer's seal for permit purposes.
- Generated detailed shop drawings for particulate room, vibratory catwalk and hanger support along with Bill of Materials.

### Results:

Sterling was successfully able to enhance space at the client's site.

- They designed a hanging platform system to support the new equipment that was comprised of a particulate room, vibratory catwalk and conveyors.
- They incorporated the new equipment on time and within budget without having to incur the costs of a building expansion.

## **PROJECT SNAPSHOT**

❖ *Expansion of a manufacturer was needed but space was limited.*

❖ *A hanging platform, vibratory conveyors and catwalks were designed.*

❖ *The client was able to implement the designs without incurring the costs of expanding their space.*

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