



# PLANT SYSTEMS ENGINEERING

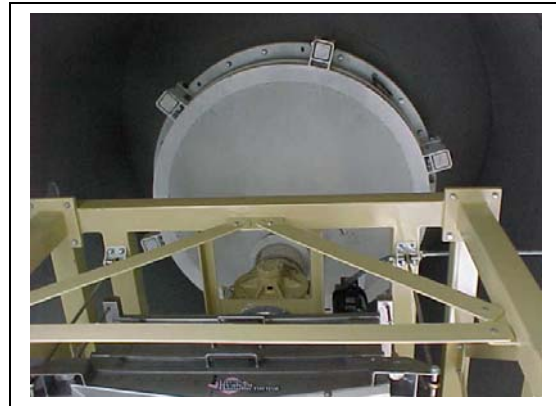
## BULK FLOUR SILOS: BAKED FOOD PRODUCTS PLANT

**Project Requirements:** A Pennsylvania Baked Food Product Plant wanted to eliminate buying bagged flour and install two truck filled bulk silos. Flour from the silos would be sifted and pneumatically conveyed to hoppers suspended from tension load cells above the dough mixers.

Space for the silos was limited and the work had to be completed while many other trades were on site for other upgrades.

### Scope of Work:

- Engineer foundations for silos
- Working with equipment vendors, detail all mechanical systems and interfaces to owners equipment
- Equipment included:
  - ✓ Two 12' diameter by 60' welded steel silos
  - ✓ Active bin dischargers and sifters
  - ✓ Truck fill system to load the silos
  - ✓ Pressure pneumatic conveying system with diverters
  - ✓ Receiving hoppers suspended from tension load cells above owners dough mixers



*Active bin discharger and sifter support frame under cone of bulk flour silos*



*Two crane pick of silo prior to setting on concrete pad.*



*Overall view of bulk flour silos after installation*

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