



## Box Filling System

### Application / Equipment Details:

- NBE CSO: E342334035
- Material: Plastic Pellets
- Bulk Density: 40 PCF
- Particle Size: Pellets up to 1/8"
- Surge Bin Usable Volume: 274 cu. ft

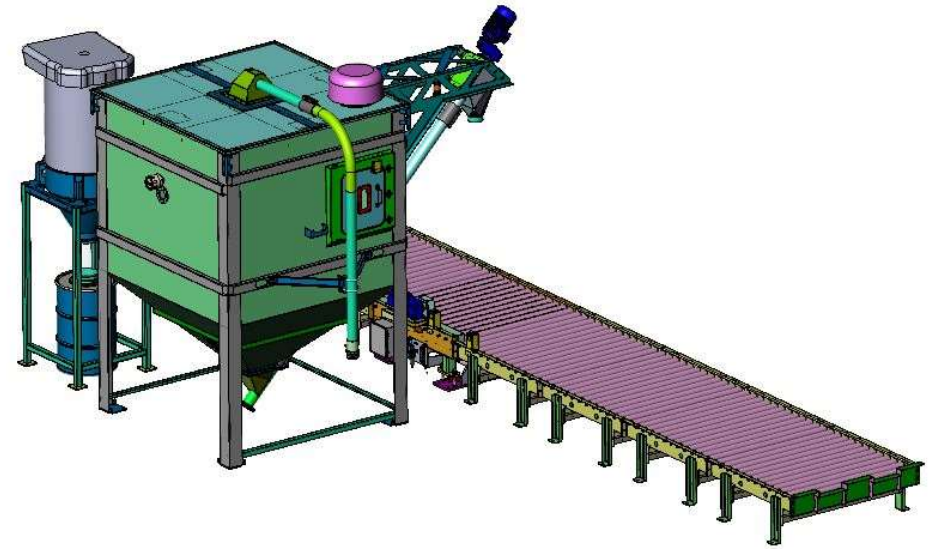
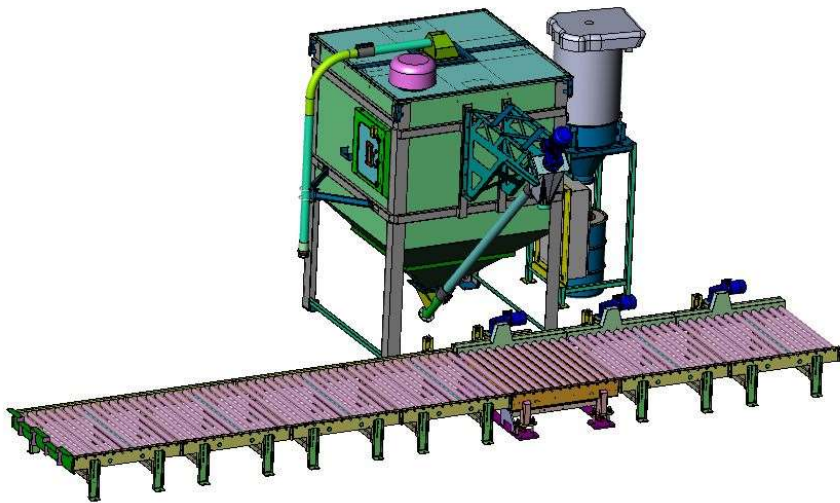
### Application Overview:

The customer came to NBE in need of a more automated gylord box filling line for plastic pellets. Plastic pellets were being stored in a remote larger hopper and needed to be pneumatically conveyed over to a surge hopper that would then feed a box filling line. NBE provided a surge hopper on the filling line with a pneumatic pipe connection for the convey line. Plastic pellets were then blown into this surge hopper from the remote hopper. A dust vent cartridge filter was provided for displaced air from the surge bin. A flexible screw conveyor was provided to meter the plastic pellets from the surge hopper to the box filling line. The box filling system consisted of load cells and densification. Boxes are filled to a preset weight with complete bulk/dribble functionality. When the boxes hit the target weight the auger would shut down, densification would level the product in the box, and boxes would index out from the filling station to a set of gravity accumulation conveyors. Two (2) powered infeed conveyors were provided so that boxes on pallets could be staged for filling. Indexing of the boxes was built into the NBE supplied PLC program. This complete system was engineered, manufactured, and commissioned by NBE to the customer as part of the overall project.

# Real Results APPLICATION OVERVIEW



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