

# 01

## MATERIAL DOSING VIA POWDER PUMP SYSTEM & LOSS-IN-WEIGHT FEEDER

### THE CLIENT'S NEEDS

A leading developer of toughening agents and resins used in high-performance thermoset manufacturing needed to introduce a specific percentage-by-weight of new powder into their existing raw material feed stream to improve their product's quality and value.



Bag Dump Station and Vacuum Bag Lift Assist



Powder Pump and Twin Screw Feeder

### OUR SOLUTION

Based on a site review of the customer's existing production equipment, DDPS proposed a complete, integrated system that allowed the new powder to be charged into a bag dump station, pneumatically conveyed up to a charge hopper and then metered into the raw material stream via a loss-in-weight feeder.

The project scope included a pneumatic-assist bag handling unit, a mezzanine structure for equipment installation and maintenance access. A 3-D model of the structure was created to assist with customer review and approval.

No powder transfer trials were required as DDPS had previous experience conveying the same material. However, the two material samples were compared and determined to be very similar and suitable for pneumatic conveying (i.e. dry, free flowing, powder, consistent particle size).

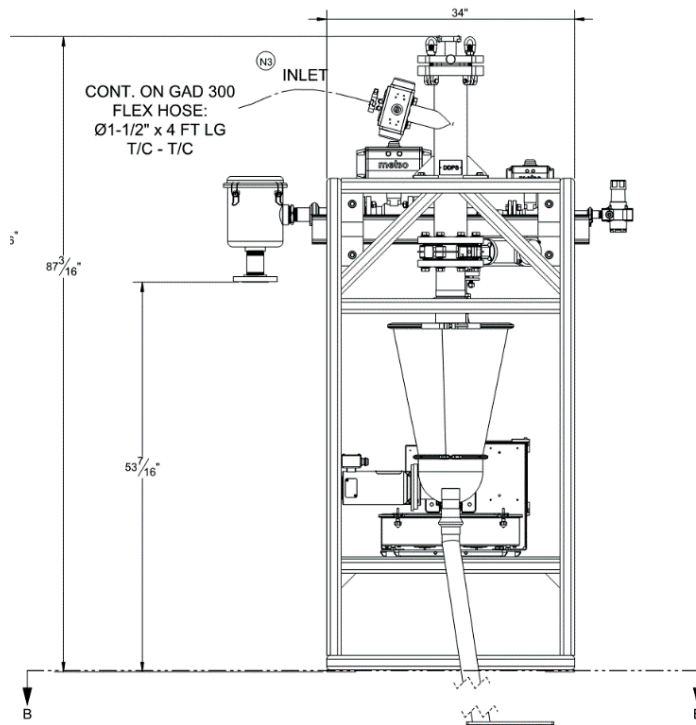
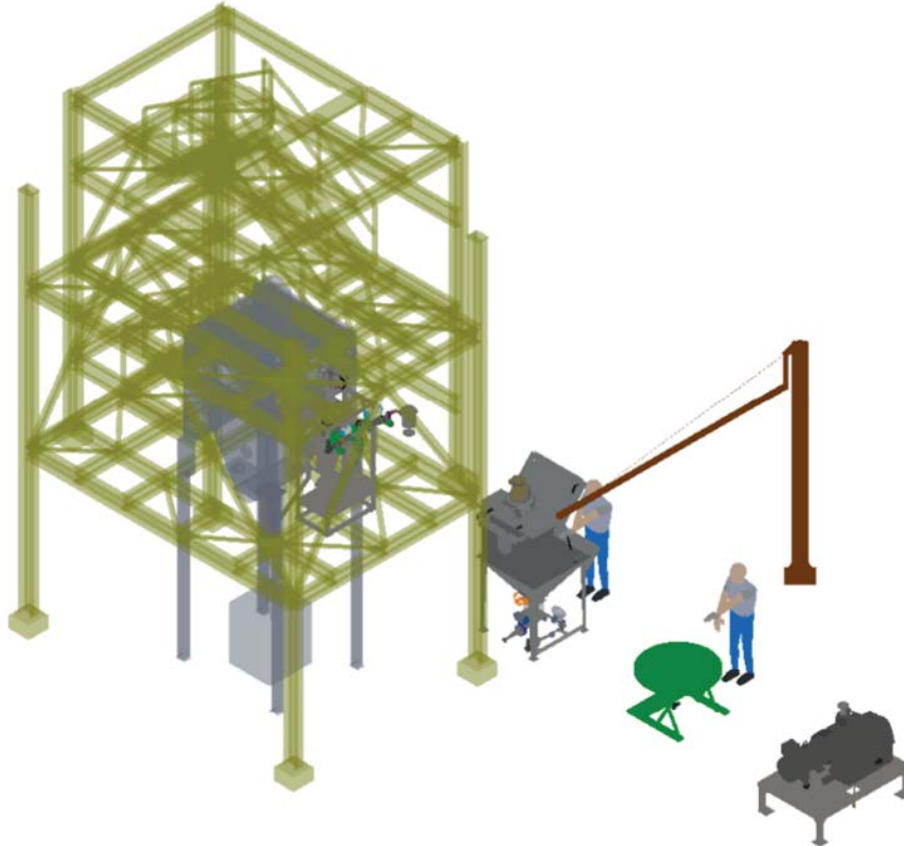
DDPS controls engineers were on site for start-up, commissioning and operator training to help ensure a smooth project handover.

### RESULTS & BENEFITS

The customer was satisfied with the system design, component quality, installation arrangement and system function. QC and market tests of the new product blend verified the improvements expected and resulted in a justifiable price increase over their previous product.

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