

CASE STUDY

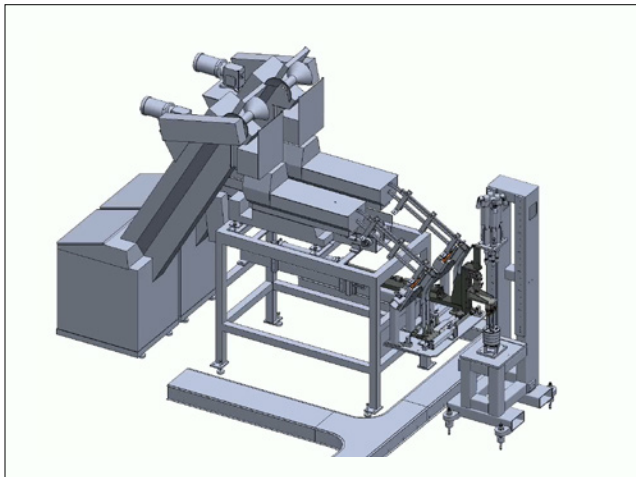
Simulation Software Speeds Up Delivery Lead Times on Floorbin Elevator Vibratory Feed Systems



An HGA Company

Since 1969, Spectrum Automation has manufactured custom parts feeding and material handling machines. We offer a full line of proprietary equipment used to move parts and components through manufacturing and assembly environments.

Our engineers use state-of-the-art simulation software to test and debug custom designs before full-scale production, avoiding unforeseen costs and potential delays further down the line.



Floorbin elevators are used to store, elevate, and bulk feed a wide variety of parts, over-the-top, to various overhead chutes and manipulators. In this system designed for a customer in the automotive industry, two different part variants are loaded into the hoppers. The parts are lifted through the hopper elevators. Parts are dropped down the in-feed chute, into the vibratory orienter.

Parts travel down feed tracks and are escaped into the down tubes into the receiving pockets, one at a time. The presentation mechanism slides across and presents two parts for the pick-and-place. The pick-and-place picks one part and shuttles out to the unique load position for that part, then slides back when complete to pick the other part variant, completing the cycle.



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