

Granola Bar Processing Application



CUSTOMER INFORMATION

Customer is a granola bar food processor.

SYSTEM REQUIREMENTS

Convert an existing granola bar line from a manual batching process to an automated continuous process and eliminate wasted off-spec product.

SYSTEM RECOMMENDATION

The customer contacted Schenck Process for suggestions on improving their process. After testing the customer's materials in the Schenck Process test lab a system was recommended that included the following equipment:

- SolidsFlow® gravimetric vibratory feeders
- DISOCONT® feeder controls
- Integrated PLC
- Customized cantilevered stand design

APPLICATION

The process begins with the operator entering the proper recipe into an integrated PLC for feeding various fruits, rice, and/or granola from the DISOCONT® controlled SolidsFlow®

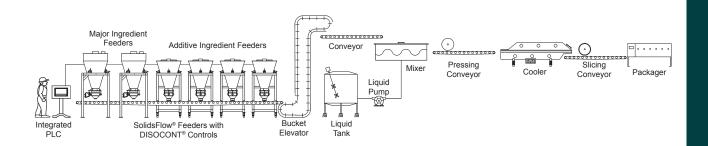
gravimetric vibratory feeders to a common belt conveyer. Each of the SolidsFlow® additive feeders incorporates a cantilevered stand design allowing the feeders to be wheeled away from the process to be cleaned off-line. The DISOCONT® controls are mounted on the feeder stands, making the feeder a stand-alone loss-in-weight system, which can be used off-line for other processes or test feeding of various new additives. After feeding the dry ingredients on to the belt conveyor the materials are dumped into a bucket elevator that feeds into a continuous mixer. At the same time a liquid flow meter ratios a sugar based slurry into the mixer. The mixing process binds all of the materials together, which then exit the mixer to a press line where the mix is formed into a sheet, sliced, and cut into individual granola bars. Lastly, the granola bars are conveyed to a packaging line where they are individually wrapped and packaged into bulk cases.

RESULTS

The customer was able to convert a manual batch process into a continuous automated process, which nearly doubled their output of granola bars. With the ability to continuously monitor all of the ingredients by weight, off-spec products were also significantly reduced.







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