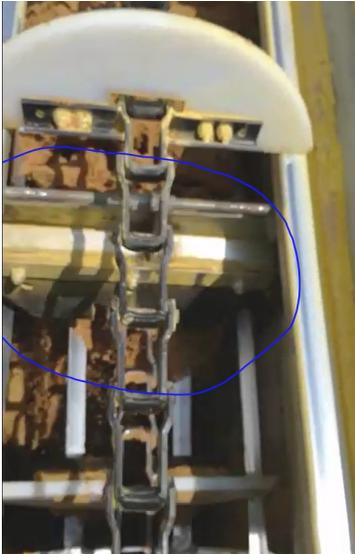


Premium Material Handling Equipment

Case Study: Prevent Carryover and Cross-Contamination with One Simple Tool

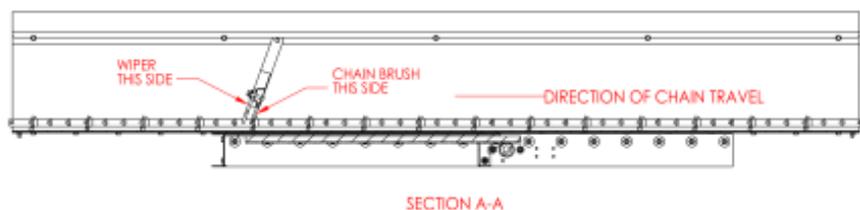
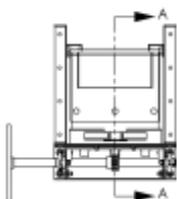


Over the years, Sweet Manufacturing Company has had multiple requests to tackle specific, complex applications of powdery or sticky material. We have found that with drag conveyors, powdery and sticky materials can get stuck on top of the chain and paddles. This material gets carried over the top of the paddle or chain (past the intermediate gates) to the conveyor head, where it can collect and produce a plug condition. In the past, Sweet has redesigned and extended intermediate gates to solve the issue, but found that this is not enough to eliminate carryover to the head. Therefore, we created a brush kit. The kit is placed below the return rail of the chain conveyor and moves using gravity. When the intermediate gate is open and material is flowing, the brush system will descend and clean the top of the chain and paddles.



In 2016, Sweet was approached by a feed mill that was using one conveyor to load 10 different silos. Some of the materials included soybean meal, bone meal, corn flakes, and sunflower seeds. In addition to preventing carryover, the mill was concerned with cross-contamination. Sweet devised the solution of adding a wiper to our brush kit. The thick, wide material of the wiper will help the chain vibrate the paddles and shake off any particles that would have continued downstream. This device is most effective with products that are loose. For stickier materials, we recommend adding return cups and head gates.

The brush and wiper kits have been so effective that we've decided to use them in all commercial applications where multiple products are handled with the same feeding or loading conveyor. To date, the kits have been used in 20-25 feed mills! They are a simple, cost-effective way to prevent cross-contamination. We recommend these kits for all storage facilities and feed mills with these conditions, or anyone concerned with product carryover. If you are currently experiencing a carryover issue with a Sweet conveyor, or wish to prevent cross-contamination, a brush kit can easily be added to your equipment. Contact sales@sweetmfg.com for more information!



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