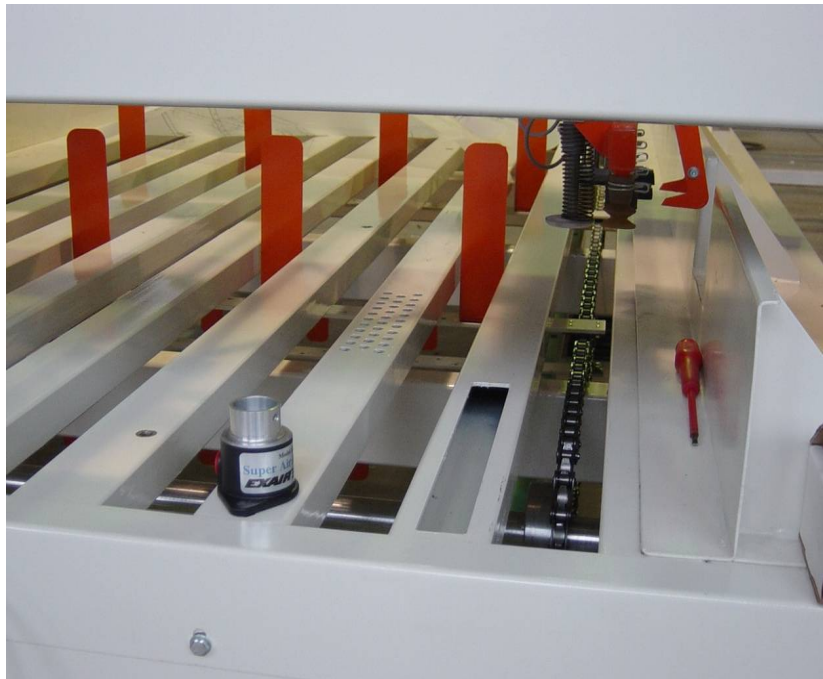


Case History 148

Industry: Food Packaging

Components/Products: Pre-packaged cereals.

Background: A specially designed automatic cereal (wheat, oats, rice and maize) packaging machine did not function as designed during pre production trials. One of the engineers working on the project contacted his EXAIR distributor.



Problem: The cereals were intended to be automatically dispensed into plastic bags. When the suction cup (top right of photograph) attempted to open the bag it simply lifted it off the bed of the machine. Cereals were dispensed and fell to the floor.

Solution: A series of holes were drilled into a channel on the bed of the machine where the plastic bag was automatically located for filling. A **Model #120021 Air Amplifier** was installed at the far end of the channel to create a vacuum, drawing air through the holes in the channel. When the plastic bag was automatically placed over the holes, the Air Amplifier was switched on and a vacuum was pulled on the underside of the plastic bag holding it in position. The suction cup then moved into position and lifted the top surface of the bag, cereals were then successfully dispensed. To complete the process the suction cup and Air Amplifier were switched off and the filled bag moved to the next station by the red transfer bars.

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