



APPLICATION GOAL: To eliminate static in a plastic bag manufacturing machine.



BEFORE EXAIR: Before the Super Ion Air Knives were installed, a medical product packager was having issues with the bag material climbing the tension curtain which would cause misfeeds, irregular bag length, material tracking issues and a considerable amount of down time. The machine had a “static eliminator” on it from the factory but that did not seem to work.



When the tension curtain builds a static charge it makes the bag material cling to the curtain instead of passing under it.



AFTER EXAIR: Once the 36" (914mm) Super Ion Air Knife was mounted using the Universal Air Knife Mounting Systems, it was positioned over top of the curtain and blowing ionized air down both sides. This eliminated all static issues with the tension curtain. By enabling the machine to keep a proper tension on the bag material it also corrected all incorrectly cut bags, and misfeeds at the opposite end of the machine. The machine down time and defects were decreased to less than 5% of material processed. This enabled the customer to run production at a constant rate with little to no downtime.

