



CASE STUDY: PLASTIC FILM CONVERTING

The Problem:

A plastic film converter was experiencing electrostatic problems in the winding process, which was negatively impacting effective operation of the converting machinery. Typical static eliminators were not effective or lacked the suitable ionization range to solve this converter's static problem.

Many materials such as plastic films, paper and foil generate a significant electrostatic charge as they are handled, especially during unwind or rewind. Excessive static electricity charges in winding operations can cause a number of undesirable outcomes. For example, static-charged materials can cling to or repel surfaces such as rollers, causing improperly or unevenly wound rolls. It can also slow machinery speeds in order to wind properly. Both problems result in reduced throughput and failure to meet time and labor targets. In addition, static also increases dust and dirt contamination, which results in rejected materials and quality impediments in secondary operations like slitting or printing. There is also the risk of shock hazards to personnel and machine components, and sensors, readers or diagnostic units can fail to operate properly.



The Solution:

The IonStorm XR2 Static Elimination System provides high-performance ionization output and extended ionization range. As the web winds or unwinds and increases or decreases in diameter, the IonStorm XR2 continuously and effectively neutralizes the static charge of the web. Additionally the IonStorm XR2 provides extended range ionization where many process or machinery designs prohibit the installation of close mounting ionizers.

The ultra-high ionization output, user adjustable performance controls and extended ionization range of the IonStorm XR2 quickly and efficiently solved this converter's static problems and the resulting production deficiencies that accompanied them.