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Automatic Container Denester System

This Wrabacon Automatic Container Denester System with accompanying conveyor was designed and manufactured to cut production losses for a company using a thermoformer in its manufacture of plastic trays. Prior to the Wrabacon system, when the thermoformer was down, the entire production line was down. The Wrabacon system was designed to fit between the thermoformer and the remainder of the down-stream system to provide continuous production capability.

The Wrabacon system was linked to the thermoformer in order to receive a signal to activate when that unit was down. From the fully adjustable supply hoppers that can hold a variation of tray sizes, vacuum equipped “pick arms” automatically maintain trays on a receiver plate. When signaled, the Denester System pushes the trays onto the conveyor, thus, ensuring downline production continues until the thermoformer is back in operation. The Wrabacon conveyor is equipped with a stop gate to ensure up-stream product is prevented from entering until the Denester has fully completed its last cycle. When the thermoformer is functioning normally, trays will be transported past the Denester.