



## WASTE MINIMIZATION

We find ways to reduce waste at every step of the production process.

Every day, you're continually trying to minimize material waste and lost revenue from machine stoppage and restarts. Our patented waste minimization technologies increase production efficiency and reduce material waste, resulting in significant cost savings.

### **Eliminate expensive ear material waste.**

Our patented No Scrap Ear (NoSE) unit cuts specific ear shape patterns that don't produce scrap, using 100% of the ear material every time. Multiple shapes can be cut, including symmetric trapezoids, asymmetric trapezoids, and radiused cuts.



### Minimize material waste from splicing.

Our Low Roll Splice Initiation System accurately determines the right splice point for each roll so the maximum amount of material is used from every roll before splicing. The patented camera technology also identifies the splice location and is able to reject the single defective product. As a result, only three products—the defective product and the ones before and after it—are rejected for a standard splice.

### Delayed machine start-ups reduce waste.

Start-up and shutdown reject quantities are always set to a predetermined amount to ensure quality. Our Baby Diaper machines can be started in phases to reduce material waste. For example, front ears, acquisition layer, landing zone and waistband applications are delayed upon machine start-up so

those materials aren't wasted on products that will be rejected anyways. This feature can be applied to anything that gets added to the product.

At start-up, features with open adhesive are removed from the applicator. Once fresh adhesive reaches the application point, the application process begins. This process eliminates the requirement for a secondary start-up reject of a complete product. For example, 200 hook tabs are rejected at the applicator versus 75 complete products at the final reject, reducing overall material costs.

### Reduce product waste with automatic correction.

The patented JOA® Vision Control System identifies product defects and triggers automatic correction without stopping the machine. Open cuff folds are spotted and corrected with patented cuff folding technology, and out-of-position cuff elastics are identified and reset.



Incorrect orientation of the running web is likewise identified and automatically inverted using patented technology so the ADL isn't run the wrong way an entire shift, eliminating substantial material waste. In addition, side panel technology initiates recovery air knives when damaged film is detected, preventing machine downtime.



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