

# MUST

## STRETCH FILM MANAGEMENT SYSTEM

MUST is a cutting-edge industrial IoT monitoring platform trusted by Fortune 100 brands to standardize and optimize the stretch wrapping process. Backed by a team of over 50 specialists, MUST empowers clients to monitor their wrappers, reduce costs, minimize product damage, and lessen environmental impact.

### **REDUCE PLASTIC WASTE.**

Reduce Annual Stretch Film Usage by **35-50%**

### **SAVE MONEY.**

Experience a Cost Reduction of **15-30%**

When high-quality stretch film is applied using a wrap pattern tailored to your specific load requirements, it ensures consistent optimal containment force at scale. This approach reduces film usage, lowers costs, and prevents product damage. Over the years, MUST has helped eliminate millions of pounds of stretch film from the waste stream, enabling our partners to shrink their carbon footprints and advance their sustainability goals.

#### **In 2023, the MUST Program Helped our Partners:**

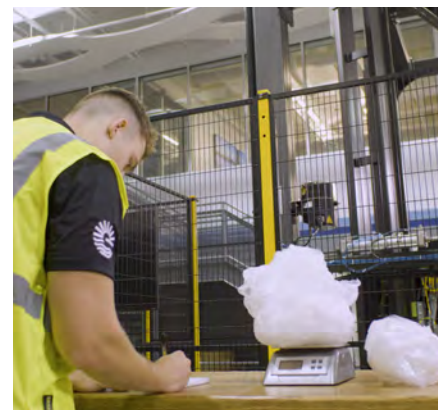
- **Save \$64 Million**
- **Prevent 35 Million Pounds of Plastic Waste**
- **Monitor 60 Million Pallets for Optimized Load Containment**

### **TOTAL COST = PRICE x QUANTITY**

MUST guarantees total cost savings by carefully controlling and reducing the quantity of stretch film used on every product load. Monitoring and reducing the quantity of total film usage delivers much larger and more predictable annual cost savings than relying on transactional price reduction.

### **THE PEOPLE**

The MUST platform is backed by a team of over 50 stretch film experts, packaging engineers, technicians, and software engineers all dedicated to ensuring your stretch wrapping operations are performing at peak efficiency and performance.





## AUDIT

We analyze your stretch wrapping equipment, film, and processes to identify opportunities for improvement.

- **Film Audit:**
  - Film Properties
  - Current Wrap Pattern
  - Ounces of Film Dispensed
  - Containment Force
  - Load Dimensions
  - Stretch Percentage
- **Equipment Audit:**
  - Evaluation of Common Wear Parts
  - Studying Roll Carriage Structural and Functional Parts
  - Identifying Opportunities for Upgrades or Retrofits
  - Part Recommendations



## OPTIMIZE

Film, equipment, and process upgrades are recommended, and the ideal stretch film wrap pattern is implemented along with MUST hardware and software.

### Intuitive Hardware & Software

- Quick to install on any automatic stretch wrapper
- Monitors and reports without interfering with equipment or controls
- User friendly design makes it easy to see any deviations from the wrapping standard



## TEST

We test stretch film wrap patterns on your unique pallet of products to find the ideal application method that maximizes load containment and minimizes material usage.

- **ISTA-Certified Testing Equipment**
  - Multi-Axis Vibration Table
    - Recreates real-world transit conditions experienced by unitized loads by vibrating them in multiple directional combinations
  - Horizontal Impact Sled
    - Realistically simulates the impacts of acceleration and braking on unitized loads during transportation
- **Film Lab**
  - Offers a variety of film testing capabilities and provides a realistic simulation of the stretch film application process
- **Containment Testing**
  - Our stretch film specialists are equipped with handheld containment force measuring devices to analyze the structural integrity of wrapped pallets



## MONITOR

Film application is tracked on every pallet wrapped and real-time data is available online to ensure consistency and standardization.

### 24/7 Monitoring & Daily Reporting

- Actionable alerts to quickly identify problems with wrappers
- Data can be accessed any time on our website
- A daily recap report is sent to your email

### Wrapper Health Score

- A health score is calculated for each wrapper, factoring in any issues or deviations from the wrapping standard, to determine if any wrappers require attention or maintenance

### Data Collected

- Total Pallets Wrapped, Total Revolutions Applied Per Pallet, Detailed Revolution Breakdown (Up, Top, Down, Bottom), Ounces of Film Dispensed, Stretch Percentage, Film Breaks, Roll Changes, Pallets Per Roll