



## Site Details

Dynamic Air is a leading manufacturer of sustainable indoor air quality (IAQ) systems for residential and commercial buildings, delivering energy-efficient air cleaning solutions that remove particulates, odors, and germs while lowering HVAC energy and maintenance costs. Their product line includes electronic air cleaners, UV germicidal systems, and advanced IAQ technologies for both new construction and retrofit projects.



**Video Link: DVPG - PAC Strapping SM65**



## Challenges

From Dynamic Air Quality Solutions Princeton, NJ warehouse, more than 250,000 packages are shipped annually, all of which were opened and sealed by hand. This manual process was time-consuming, labor-intensive, and required more than 12 pieces of tape per package to ensure shipments remained secure during UPS transit. Additionally, the design and variability of the boxes prevented them from being compatible with traditional case sealers.



## Results

Dynamic Air sought to modernize its end-of-line packaging process by replacing manual taping with a faster, more cost-effective automated solution. The objective was to reduce labor dependency, control consumable costs, and improve package consistency without disrupting operations. Here are some efficiency gains and financial returns:



Reduced labor time per box and eliminated recurring tape costs through automation, required minimal operator training for rapid adoption



Achieved approximately **\$30,000** in annual cost savings from lower labor and consumable expenses



Improved packaging throughput, consistency, and load integrity, minimizing rework and reduced shipment-related issues

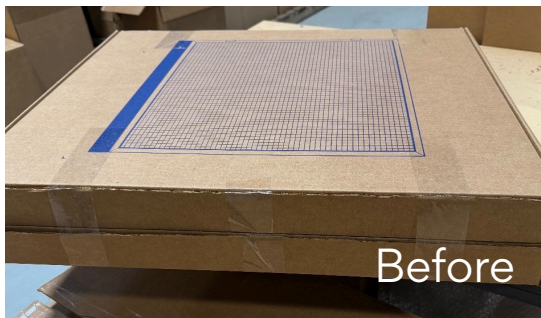


Realized **full return on investment within 120 days**



## Solution

DVPG implemented a PAC Strapping Systems SM65 Semi-Automatic Arch Strapping Machine to improve packaging efficiency and shipment security. The user-friendly system was installed and fully operational in under 30 minutes, minimizing downtime while enabling the team to quickly reduce manual labor, improve consistency, and securely prepare boxes of varying sizes for shipment.



Before



After