

Parts Now Finds The Perfect Fit With Molded Foam Cushions

Sealed Air

Sealed Air's Instapak iMold® System offers an efficient and sustainable automated packaging solution for a leading supplier of laser printer parts.

Many companies are searching for a protective packaging solution that is both cost effective and sustainable. Wisconsin-based Parts Now found this balance of environmental responsibility and product protection when it worked with its packaging supplier, Sealed Air, to examine its packaging operations and test a new automated system.

Established in 1989, Parts Now is considered the industry leader in profitable solutions for companies that service business printers. As the number one supplier of laser printer parts in North America, Parts Now is a global company and the only authorized distributor for five OEMs – Hewlett Packard, Lexmark, Toshiba, Canon, and OKIData. In addition to successfully growing its business, Parts Now earned the Wisconsin Business Friend of the Environment Award in pollution prevention for its dedication to sustainable practices.

Developing The Relationship

Sealed Air and Parts Now began their relationship in 1996 and have since worked to ensure that Parts Now packages products in a way that reduces damage and overall cost, while minimizing the amount of packaging materials necessary. Due to the longstanding relationship between the companies, Sealed Air approached Matt Olson, Parts Now industrial engineer, and Bob Banke, Parts Now vice president of operations, about testing a new system in their facility.

“Sealed Air approached us about a new automated Instapak® molding system that was being beta-tested with existing Sealed Air customers,” explained Olson. “Due to our close relationship with Sealed Air, we agreed to be part of the initial testing group for what came to be known as the Instapak iMold® system.”

Troubleshooting

When Parts Now began shipping printers and printer parts more than two decades ago, the majority were packaged with a crinkled paper product. Later, Parts Now started using molded flat pads and Instapak® foam-in-bag packaging for fusers. The company initially used two bags of Instapak® foam to surround the fuser. This provided adequate protection for each fuser, but as business grew, the need for a more efficient process became apparent. Sometimes the finished product would sit in queue for two to three days before packers would get a chance to work through the backlog of finished fusers waiting for packaging.

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“We found that while the Instapak® foam-in-bag cushions performed well, the packaging was only used once because it was very difficult for customers to re-pack their cores for a return shipment,” said Olson. “This added cost to the refurbishment processes since cores that were improperly packed had a higher probability of arriving at our facility damaged and requiring additional repair.”

By adopting an automated molded cushion process, Parts Now realized they could offer customers consistent and reusable cushions to help streamline the repacking and returns process. Because Parts Now required multiple unique cushion designs for the diverse shapes and sizes of the printer parts, an automated system that could easily interchange various molds was important as well. For these reasons, Parts Now was an ideal operation to test the new Instapak iMold® system.

Processing The Job

The Instapak iMold® system tested at the Parts Now facility was designed to create custom-engineered foam cushions by combining two liquid components to create polyurethane packaging foam. The process begins when the system dispenses the liquid foam using patented Foam Dispersion technology, which can strategically place the foam anywhere within the bag. The foam-filled bag is then drawn into the integrated mold cavity. As the liquid foam expands, the system encloses the bag within the mold by means of an automated door lid. Once the foam cures and conforms to the mold image, the Instapak iMold® system opens the mold door and ejects the finished foam cushion into a bin. Multiple cushion designs can be produced with the Instapak iMold® system and operators can easily change from one cushion to another in a matter of seconds with the system’s RFID mold sensing technology, which quickly recognizes a new mold and begins the proper dispensing process.

Once the Instapak® molded cushions are produced by the Instapak iMold® system at the Parts Now facility, they are batched and brought to a packaging line and placed in overhead delivery bins where packers can quickly and easily access the right size cushion for each laser printer part on the line. The use of molded end-caps speeds up the packaging process considerably and allows Parts Now employees to keep up with daily packaging demands.

Now, instead of using two bags of foam for most of its cartridges, Parts Now uses molded end-cap cushions, which require less foam material, retains a refined aesthetic appearance, and can be reused multiple times by Parts Now and its customers. The smaller and mid-size fusers only require two end-cap cushions, which are placed on each end of the fuser, providing the necessary protection and adding stability and support to the pack. For the larger and heavier fuser models, Parts Now uses three-part molded foam cushions to completely encapsulate the product and protect it from shipping damage.

Test Running

Before incorporating the molding systems into its operations, Parts Now and Sealed

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Air conducted testing that lasted for nearly three years. In the summer of 2008, Parts Now installed its first Instapak iMold® system at its Middleton, Wis. facility. During this time, Sealed Air made alterations to the design and functionality of the machine. Additionally, Sealed Air conducted ISTA 1A testing in its certified Package Design & Development Center (PDDC) in order to validate the new package designs.

“We conducted testing internally, as well as by sending items from our Wisconsin facility to our California facility,” said Olson. “Once the items arrived safely in California, they were repacked with the same molded cushions and shipped back. When the items made the round trip safely, we realized that there was a great opportunity to reuse these molded cushions multiple times.”

Following the successful testing of the new molded cushions, Parts Now began transitioning to molded-foam end-cap cushions at the start of 2009. When asked about the adjustments that had to be made to accommodate the new systems, Olson said, “The molding systems required very few changes to our facility and were easily integrated, thanks in part to Sealed Air’s dedicated sales and account representatives.”

Repeat Job

Parts Now also found it could reuse the molded Instapak® end caps two to three times before needing to be replaced. “When returns arrive that are packaged with the molded end-caps, the boxes are simply opened and the customer’s defective core is removed to be remanufactured. If those end caps are in good shape, they go into specified bins where they will be reused to package other refurbished components,” said Olson.

“If end caps are crumpled, damaged or no longer suitable for reuse, we take them to the shipping department and they are used for void fill,” said Olson. “I’d estimate that about 90 percent of the molded cushions we ship come back to our facility.”

By reusing these end caps, Parts Now reduces packaging costs and the amount of packaging materials that were once sent to landfills.

Results

“We certainly saw a measurable return on investment by switching to the molded cushions,” said Olson. “In practical terms, we save \$500 per day by reusing and recycling our packaging materials. This is the number that we came up with when we went from a void-fill packaging mechanism using virgin materials in our shipping department to reusing our molded packaging as void fill.” Parts Now estimates that the average weight cost reduction per pack was about 70 cents, and it saw a 26 percent decrease in the material usage. Parts Now now packs 850 to 900 fusers a day with six to eight people working the line. “Our workers were positive about the change because the systems are fast and easy to use,” said Olson.

Additionally, after switching to the Instapak® molded cushions, Parts Now has seen a reduction in damage during shipping, particularly with the heavier fuser models.

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“We have fewer cases of shipping damage,” Olson said. “When we conducted our ‘Voice of the Customer’ survey, the reaction was extremely positive. They appreciate the continuous improvements we make to ensure our products arrive to our customer in the same condition as when they leave our facility.”

Parts Now plans to continue to update and examine its packaging and shipping methods with the goal of always improving its current process. “We are comfortable in knowing that as business increases, there is plenty of built-in capacity with our Sealed Air solutions,” said Olson. “We’re also looking at new sizes for our corrugate boxes to improve packaging cube utilization and reduce costs.”

As Parts Now continues to expand and grow, the company knows that its packaging process must evolve and grow with it in order to successfully meet its customers’ expectations. This includes using packaging solutions that are both cost effective and sustainable.

About Parts Now

Parts Now is the industry leader in profitable solutions for companies who service business printers. The No. 1 supplier of laser printer parts in North America and an authorized distributor for HP, Lexmark, Canon, Toshiba, and OKIData, Parts Now is also the largest trainer of repair technicians in the United States, and a leading expert in helping companies drive revenue with managed printing. Visit www.partsnow.com [1] or call 800.886.6688 for more information.

About Sealed Air

For 50 years, Sealed Air has been a leading global innovator and manufacturer of a wide range of packaging and performance-based materials and equipment systems that now serve an array of food, industrial, medical, and consumer applications. Operating in 51 countries, Sealed Air's international reach generated revenue of \$4.2 billion in 2009. With widely recognized brands such as Bubble Wrap® brand cushioning, Jiffy® protective mailers, Instapak® foam-in-place systems, and Cryovac® packaging technology, Sealed Air continues to identify new trends, foster new markets, and deliver innovative solutions to its customers. For more information about Sealed Air, please visit the company's website at www.sealedair.com [2].

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