

The NuminaGroup

PFI™ Automated Print-Fold-Insert Automated Document Insertion Removes Touches and Streamlines Packing and Shipping Operations

PFI™ Print-Fold-Insert is part of Numina Group's highly advanced family of document print and insert, and print and apply labeling technologies that provides proven ROI. When integrated into automated packing lines, these technologies lower labor costs and increase accuracy and throughput rates across the Pick, Pack, and Ship Operation. PFI™ combines the industry's fastest pack sheet laser printer with automated folder/inserter technologies.

PFI™ performs document print on demand and precision placement of documents into an open carton or tote. PFI™ automatically prints, stacks, folds and inserts up to ten 8.5" x 11" packing sheet documents into a carton or tote.

PFI™ employs the industry's fastest on-demand printing technology and supports both single sided or duplex printing with graphics or customer logos onto blank paper or pre-printed forms. PFI™ supports a wide variety of carton sizes ranging from 6" L x 4" H x 4" W to 48" L x 30" H x 30" W.

A single unit performs 12-13 cartons per minute, CPM. Two or three PFI™s in a high speed pack line can be used to automate 30+ CPM. It is a proven technology that improves quality, lowers labor costs/requirements, and provides higher shipment throughput for Omni-Channel, Ecommerce, and Traditional Order Fulfillment parcel shipment operations.

Pack automation lines can be tailored to customer's specific needs for automating print and insertion of documents such as return labels, promotional materials, coupons and new product announcements. The line can also include inline vision capture/audit, weight inspection, and semi-automatic or auto-taper sealers. Carton shipment labor can be further streamlined by adding inline scan, weigh, dimensioning and print and apply labeling to automate retail label application and UPS/Fed Ex shipping, labeling, and order manifesting.



PFI™ carton height detection automates the placement of the document based on the carton height. The unit accurately prints, folds, and places one to ten 8.5" x 11" printed sheets into cartons ranging from 4" to 30" in height.

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PFI™ Benefits

- **Increases accuracy and throughput while minimizing costs**
- **Eliminates bottlenecks in packing**
- **Eliminates manual packing labor and manually folded pack sheets**
- **Reduces 35 seconds or more of labor from every shipment**
- **Improves customer service**
- **Automates and validates medical document mandates**
- **ROI in 18 months or less**

The Numina Group provides lean, automated **order fulfillment processes** for Omni-channel, Internet Retailers and Manufacturing Distribution Operations. The solutions we design and implement are controlled by Real-time Distribution System, RDS™, our Tier 1 Warehouse Control and Execution System. RDS™ has been proven to reduce touches, lower labor costs, and increase accuracy in hundreds of installations.

RDS™ Voice is the industry leading multi-modal speaker independent voice technology. It provides single touch voice directed picking and other work task automation. It includes hands-free SKU and lot capture barcode validation with at least **30% productivity improvements**. In Pack and Ship we offer a full family of automation technologies, including pack sheet print and insertion along with automated print and apply labeling.

Our 29 years of distribution design and automation expertise coupled with our Real-time Distribution System, RDS™, a **Tier 1 Warehouse Control System** (WCS) provides clients with superior software and proven technologies to streamline and automate Order Fulfillment while obtaining higher efficiency and profitability in new and existing DC operations.

Take the next step: contact Pat Hanrahan at (630) 343-2629/phanrahan@numinagroup.com to learn more about PFI™ automated print-fold-insert.

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