Powerment

Since 1995, Miracom Computer Corp. has been Powering newspaper production personnel with software and systems that improve productivity, increase accountability, and allow them to get their job done, without getting in the way. Our approach is to produce systems as tools to improve the production process. Because of our focus on the newspaper industry, and our history with newspapers of all sizes, we thoroughly understand how you do business. And because of our experience in the IT sector, we provide systems that can be supported by your own in-house IT department.

Since its founding, Miracom has established itself as the leader in post-press controls for inserters, stackers, inkjet labeling, bundle distribution, and counting and totalizing systems. With over 100 newspapers now benefiting from using Miracom computer controls, Miracom has earned the reputation as being the best post-press control provider in the industry.

Whether you are looking for a control system upgrade, or a system to help coordinate the existing equipment in your facility, you will know you have made the best choice when your product has been Powered by Miracom Computer Corp.

Distributed by:
Printing & Packaging Tech., Inc.
Toll free: 877-420-4778
info@ppt-inc.net
www.ppt-inc.net

Table of Contents

Distributed by:
Printing & Packaging Tech., Inc.
Toll free: 877-420-4778
info@ppt-inc.net
www.ppt-inc.net

powered by MIRACOM

MiraSERT ⊗

Inserter Control System

MiraSERT is a state of the art PC-based Inserter Control system, written using Miracom's exclusive set of control system libraries. It's extremely intuitive graphical user interface (GUI) cuts training costs and downtime, and its advanced data collection and reporting system provides accountability and better customer service. Optional modules also control upstream and downstream equipment, such as in-feed conveyors from presses, stackers, labelers, and delivery conveyors. MiraSERT uses Internet-based monitoring, which includes the ability to process and deliver sophisticated insert packages complete with demographic capabilities.
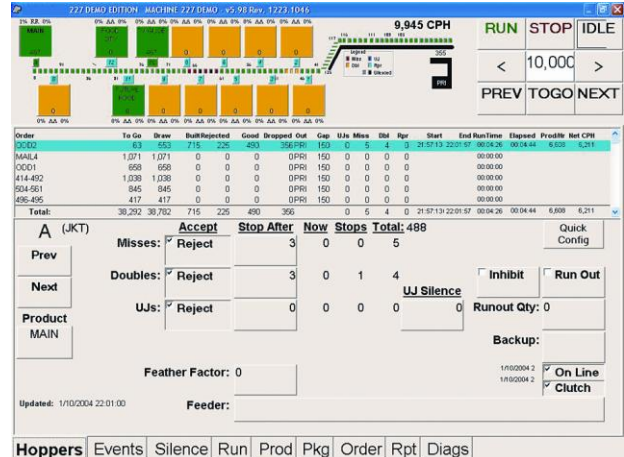
With its powerful technology, the MiraSERT Insert Management Control System ⊗Powers newspapers to compete with other media that provide highly selective, targeted marketing. Carefully designed to maximize productivity and reduce overall cost, waste, and downtime, MiraSERT will meet the most demanding newspaper production and marketing requirements.

Hardware:
- Windows XP PC (No DOS!)
- Standard PC monitor with resistive touch screen.
- Ethernet-based PLC Style I/O
- LED display (optional)

Functions:
- Independent pocket registration
- Miss/double/opener tracking and repair/reject
- Web-based monitoring and reporting
- Pocket and gripper silence by number
- One-key encoder zero timing
- Simple but effective diagnostics for quick failure resolution
- Real-time graphical display of status, efficiency, and productivity

Compatibility:
- SLS1000, SLS2000, 227, 1372, 1472, 2299, NP630, Titan G3, Titan G60
- Other inserters upon request.

Miracom Computer Corp.

Distributed by:
Printing & Packaging Tech., Inc.
Toll free: 877-420-4778
info@ppt-inc.net
www.ppt-inc.net

by MIRACOM

MiraPLAN

Interface to planning and advertizing systems

MiraPLAN is the interface that permits MiraSERT operators to import full run schedule information into MiraSERT from external systems such as the Burt Planning System Line Manager (OCI) Database, Genesys Systems AS/400 Database, or ASCII files that meet the MiraPLAN ASCII File Format (as defined in the MiraPLAN ASCII File Specification Document) from "homegrown" newspaper circulation systems, or other systems that do not support direct database interaction, such as PBS. MiraPLAN allows operators to download product, package, order, truck, and hopper information and avoid having to enter the data manually.

MiraMANAGE

Allows the management of multiple inserter control systems from a single console

MiraMANAGE allows users to manage multiple mailroom inserters from a single server in the mailroom. MiraMANAGE permits users to prepare run information in advance of a run, easily load balance the resources during the run, and collect totalized reports from all of the resources after the run is complete to get a complete picture of the production output.

MiraAPPLY

Interface to zone Ad-note applicators

MiraAPPLY will interface the MiraSERT inserter control to your Ad-note applicator to automatically turn and off for zoning purposes. The applicator is controlled just like a hopper. Zoning information can be input from your planning system

Distributed by:
Printing & Packaging Tech., Inc.
Toll free: 877-420-4778
info@ppt-inc.net
www.ppt-inc.net

powered
by MIRACOM
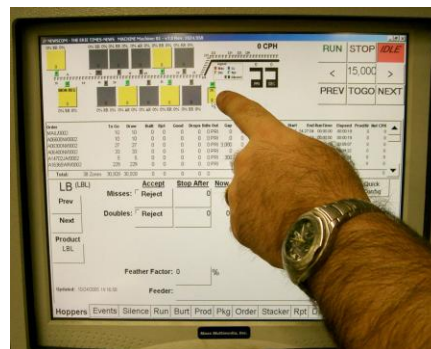
MiraJET⊗
Ink jet printing head

MiraJET is an industrial **ink jet print head** that can be used for printing addresses or labels directly on papers, products or bundles during the production process. MiraJET uses standard Hewlett Packard 45A ink cartridges, which can be purchased from a variety of sources. Economical bulk-ink systems are also available. The auto-cleaning feature involves automated capping of the heads when not in use to prevent the ink from drying out on the head.

The system, when used in conjunction with our MiraLABEL or MiraWRAP software, can be used for address labels, product marking and bundle marking.

For address label, TMC, or other product marking requirements Miracom can provide the mounting hardware for gripper conveyor, in-feed conveyors, and feed-table installation for top-down or bottom up printing. **Yes we can print upside down** to meet your TMC needs! Contact us for videos and references of installations that have been successfully printing upside down for several years with our systems.
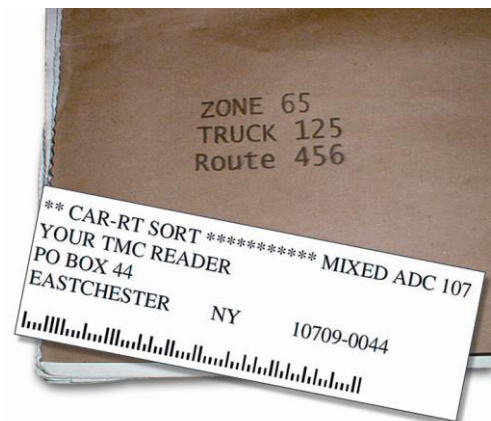
For Bundle labeling Miracom can provide mounting hardware for many bottom wrap machines and (including many Samuel and Quipp models).

Built on Hewlett Packard Inkjet technology, the standard unit is a high-resolution, auto-cleaning, 3-jet-head system that supports True type fonts and barcodes up to a width of 1.5 inches. The system also supports graphics and multiple color cartridges.

Hardware:
- HP technology, water based ink, self-sealing and self-cleaning
- Communicate to the MiraJET via Ethernet
- Systems available from Miracom to emulate many existing protocols for plug-and-play replacement of your current print head.
- Economical bulk ink systems are available for high volume applications.

Software:
- Plug and play replacement for many legacy Mathews and Prism systems.
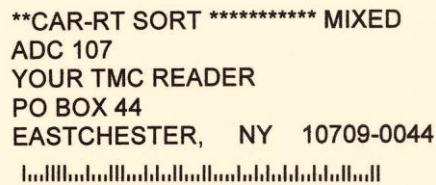- See MiraLABEL and MiraWRAP software sections for more detail

Distributed by:
Printing & Packaging Tech., Inc.
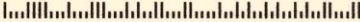Toll free: 877-420-4778
info@ppt-inc.net
www.ppt-inc.net

MiraLABEL ⬙

Print address or product coding information directly on newspapers or packages

MiraLABEL is an inkjet control interface module to label papers and insert packages in a gripper or conveyor. This can be used for the purpose of applying address labeling or package control information such as a sequence numbers and or zone identification information in code or human readable.

In the address label mode, this system can print any of the postal barcodes. MiraLABEL can work seamlessly with a MiraSERT inserter control system for verified and accurate zone counts in real time, for zoning, micro-zoning or address specific applications. MiraLABEL can also be implemented as a stand-alone printing system on any inserter, or press line, or feeder table running at up to 55,000 per hour. MiraLABEL systems can import address files in a variety of formats and control stackers for sorting, and accurate route breaks.

MiraWRAP ⬙

Bundle-wrap labeler interface

MiraWRAP is the bundle-wrap labeler interface module from MiraSERT and/or MiraSORT to the assorted bundle-labeling equipment available on the market today. MiraWRAP allows you to interface to your bundle-labeling control system to automatically print zone, route, or count information on each bundle's individual label. While it is best suited to work with our MiraJET print head, it will also work with many of the

legacy inkjet heads already mounted on bundle wrappers. Call for details about your specific requirements.
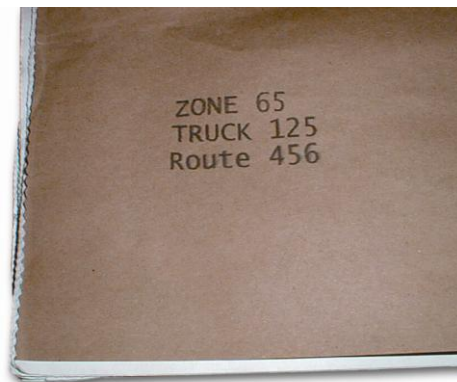
Distributed by:
Printing & Packaging Tech., Inc.
Toll free: 877-420-4778
info@ppt-inc.net
www.ppt-inc.net

MiraBUNDLE ⊗

MiraSERT Stacker control modules

Controls stackers to create custom bundles based on zone information from the inserter or address labeling programs.
Two versions available to meet any of your requirements.

MiraBUNDLE-Route ⊗

Comprehensive Stacker Control

This comprehensive MiraSERT module interfaces with your stacker stations to allow complete control of every bundle produced. When used in conjunction with a planning system this will produce unique individual bundles based on the requirements in the downloaded files.

Key bundles can be automatically configured based on a minimum and maximum size per package. Paper counts are taken from the stacker's counter and the MiraBUNDLE interface will control the stacker turns and ejects to build the required bundles. Inserter order quantities will automatically be adjusted to compensate for miscounts, reorders, or manually/externally produced bundles.

Hardware:
- Electrical PLC box with appropriate connection to Stacker or Stacker J-Box.
- 2 –line LED display mounted at the stacker station.
- Communicates to the MiraSERT panel via standard Ethernet connection

MiraBUNDLE-Zone ⊗

Basic Stacker interface control

This MiraSERT module interfaces with your stacker stations to control standard bundle size and turns by zone and creates a key bundle at the end of the zone. While less comprehensive than the MiraBUNDLE Route module, this module can create accurate counts even when the stacker counter is not getting accurate counts. This module gets the paper count from the gripper and controls the stacker turns and ejects of the stacker to build the required bundles. Bundle sizes are controlled by the inserter, and can be changed on a zone-by-zone or order-by-order basis.

Hardware:
- Electrical PLC box with appropriate connection to Stacker or Stacker J-Box.
- Communicates to the MiraSERT panel via standard Ethernet connection

Distributed by:
Printing & Packaging Tech., Inc.
Toll free: 877-420-4778
info@ppt-inc.net
www.ppt-inc.net

MiraDOCK⚙

Bundle Distribution System and loading dock automation

MiraDOCK is a bundle-distribution and loading dock management system that tracks bundles as they are ejected out of stackers and delivers them to the appropriate loading dock. Available for belts with diverters or pushers as well as tray operated systems.
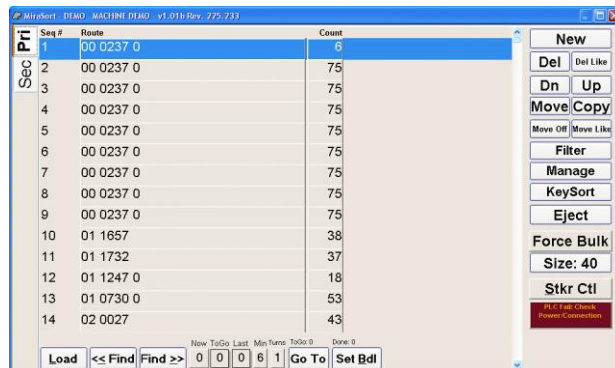
MiraSORT⚙

Stand-alone Stacker Sortation System
(Does not directly interface to inserter controls)

MiraSORT will interface directly to stackers to create key and custom bundles from entered or downloaded manifest data.

This system will provide bundle control at the stacker without the need to replace the inserter control software. MiraSORT will work with most of the stackers currently used in the newspaper industry including many models that are no longer

manufactured or sold. MiraSORT will control your stacker to drop the required count of product, rotate and eject bundles based on a supplied or entered manifest file Create zone, micro-zone, truck, or route, based bundles. Each bundle is individually tracked, ejected, and displayed to ⚙Power operators to ensure all orders are properly filled. This program can also interface with a bundle labeling system to print the any, or all, of zone, truck, route, count or sequence information as the bundles are ejected.

MiraSORT can be installed at one or more of your stacker stations so that you can easily move and plug in any of the compatible stackers in your mailroom.