COMPUTER SYSTEMS INT'L

Point-of-Sale Computer Solutions for Dry-cleaning, Alteration, Shoe Repair and Textile Industries.

*i*Assemble

CSI Auto Assembly

*i*Assemble CSI Auto Assembly System

Due to the increasing demand for an auto assembly system by our customers, CSI has designed iAssemble. iAssemble is a state-of-the-Art in software development in auto assembly.
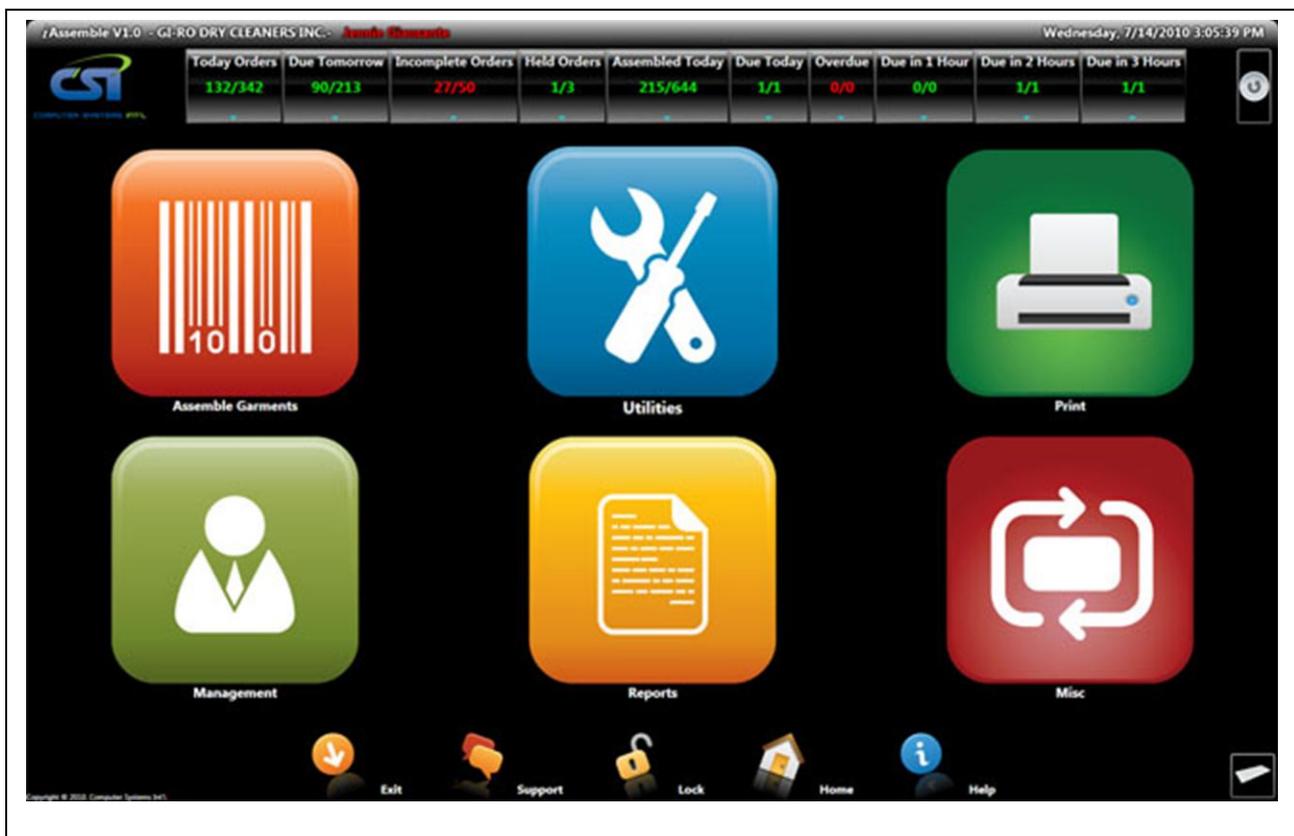iAssemble is a 32/64bit application that uses latest Microsoft technology running on Windows XP or on Windows 7 64bit. iAssemble is integrated with an assembly conveyor from SRS, or it can be operated using your existing racks. iAssemble operates preferably with Windows 7 64bit using the SRS conveyor.
iAssemble provides efficient, automated order processing on the assembly conveyor or rack, thus eliminating the need for manually matching each garment with the corresponding invoice. iAssemble has the following advantages over manual assembly:

- Improved customer service by increasing order accuracy, thus eliminating customer complaints
- Increase profitability
- Reduction in human error thus reducing the likelihood of misfiled garments
- Improve productivity, allowing for 350 garments to be assembled per hour, resulting in a reduction of labor costs
- Requires a small assemble space

iAssemble can be used with both on demand garment tracking tags or your own preprinted tags to automate the process. This process is ideal for multi-store or high volume operations.
Your operation of both TMS and iAssemble can be enhanced with a CSI hosted, centralized database.
iAssemble has a great advantage over many third party auto assembly systems because of its integration with the TMS software. Since iAssemble uses the TMS database, it is much more robust and runs much faster.
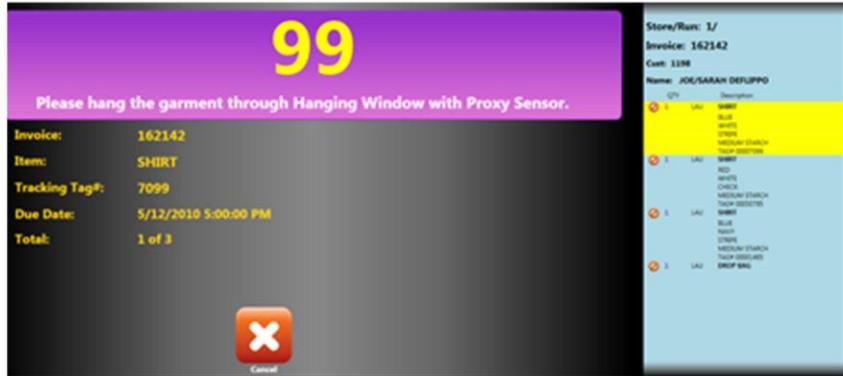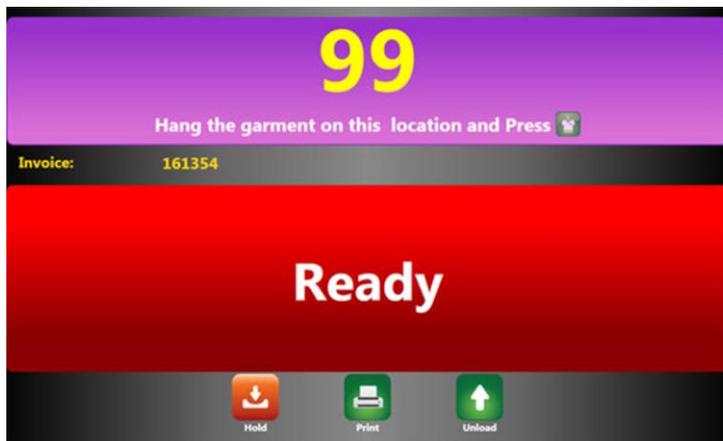
The Process:

1. As tracking tag barcode is scanned, iAssemble automatically assigns a hook number on the conveyor/rack to the invoice.

2. The conveyor automatically moves to the assigned hook number. The controller then turns on a blue LED light, indicating the assigned spot for the garment on the conveyor. It then instructs the operator to place the garment on the hook.

   The garment is put on the conveyor through the loading window which is equipped with a proxy sensor. When hanger is detected by the proxy sensor, iAssemble is informed by the controller the current loading location. If the garment is placed on the correct location, the system turns off the blue LED and allows the next garment to be scanned.
   If racks are used instead of assembly conveyor, the operator hangs the garment on the hook, and then scans the barcode on the hook to verify the location. If the hook number matches the designated location, the system allows the next garment to be scanned.

3. The above process is repeated for each garment.
4. Once the final garment of an invoice is scanned, iAssemble recognizes the order is ready. The conveyor automatically moves to the hook location where the rest of the garments are, then informs the operator that order is ready.
5. The operator unloads the order from the conveyor. As order is unloaded and removed from the conveyor/rack, the corresponding invoice is automatically printed.
6. The order is now ready for bagging.

Summary of features:

- Windows 7, 32/64Bit Application using TMS SQL database
- Assemble over 350 pieces per hour
- Very user friendly, large touch screen Icons
- Fast moving conveyor with digital controller
- Build-in hanging sensor to confirm assembly
- Build-in blue LED to show hanging status
- Hold/un-hold order option
- Complete order option
- Live running total of pieces/orders due/overdue
- Live running total of incomplete orders
- Live running total of incoming orders
- Option to split incomplete orders
- Different assembly conveyor length option, 10', 15'.
- Sophisticated graphical production Crystal Base report
- Direct link to TMS database creating much better reporting
- Advanced search function allows for viewing of garment history
- Multi-store printing option for multi-store operations
- Separate delivery/route invoice printing feature
- Supported by the use of both a conveyor or rack

Use your existing racks with barcoded Hook# to save money on assembly conveyor

System Requirements:

- Pentium 4 Dual Core Processor or better with Windows 7, preferably 64bit
- 2-4GB RAM
- 160GB hard drive
- 1 Serial Ports for conveyor interface
- Large LCD monitor, or touch screen monitor
- Wireless scanner, preferably the Symbol LS4287 Wireless Handheld Scanner

Other Requirements:

iAssemble can be operated with either a pre-printed garment tracking tag or an on-demand printed tracking tag. See options listed below.

Pre-Printed Tracking Tag:

Pre-printed garment tracking tags, by Computype, are recommended for the operation of iAssemble. Computype's KleenTrak TS871, the most popular and versatile garment identification product, is recommended. It is a heat-activated white nylon material, and customers throughout North America have discovered that it works well in both dry cleaning and laundry applications. TS871 withstands repeated dry cleaning and laundry cycles. It stays on the garment and while remaining scannable.

You may place the order directly with Computype. Be sure to use the following spec:

Item #: 1034877, Format #: ID0849, Label Size: .6875" x .25"

Material: TS871TL, Symbology: I 2 of 5

Density: 0066", Ratio: 2:1 Color(s): Black

Bar Code Message Start: 00000001 or whatever you like

Supplied 1000 labels per roll

Add your company initials to the human readable part for visual verification purpose

On Demand Printed Tracking Tag:

On-demand printed tracking tags can also be used with iAssemble. These tags allow for more information on each tag including information such as the customer's name and/or a description of the garment.

On- demand tracking tags are printed using the Zebra TLP 2844 Printer

Thermopatch heat-seal labels are recommended , if your choose to use on-demand tags. For additional information, please visit CSI website , When ordering, be sure to use the following information:

Part number TT5812-01H - 3/4" X 11/4" 4 x 25 YDS

EzPress Heat Seal Machine

EzPress® / PopUpPress® apply labels & patches in 7 seconds. The EzPress® and PopUpPress® are simple and easy to operate. The time, temperature and pressure are automatically controlled.

The PopUp Press® handle and heated platen will automatically pop up when the application cycle is complete. The EzPress® is a manual press. A buzzer will sound when the application cycle is complete and the operator must immediately lift the handle to remove the hot platen from the garment.

Auto Assembly Preparation & Recommendations:

Since iAssemble is very different from the conventional manual assembly, the following preparation should be done before installing or using any Auto Assembly system.

1. You must first decide whether you would like to use pre-printed tracking tags or on-demand tracking tags. As mentioned before, pre-printed tags are recommended.
   When ordering Pre-printed Tracking tags, request your company initial to be printed on Human Readable part for visual verification purpose in case the garment is already tagged by somebody else.
   The next step is deciding on where the tracking tag should be placed on each garment. You want to inconspicuous areas that are not easily visible to the customer, but at the same time are easily located by the assembler. Training of your personnel is very important in this stage. It is imperative that all tags are placed in the same place on the garments, allowing for the assembler to easily locate them.

2. You should then begin heat sealing tracking tags on garments a few months in advance (depending on the size of your operation) before begging the operation of iAssemble. This allows you enough time to prepare the garments for auto assembly process. Advance tagging saves you time and confusion when iAssemble is introduced into your assembly process. You should plan on having about 65-75% of the garments are already pre-tagged before using iAssemble.

3. Put aside the 1st few 100s of tracking tags to be used as temporary tags. Temporary tags are heat sealed to a fabric 1st, then pinned to the garments that are delicate or might get damaged by heat might machine. TMS has to be setup to allow temporary tags. Temporary tags are released as soon as order is assembled and could be reused for another customer.

4. It is recommended you begin listing each item individually on the invoice several months before iAssemble operation begins. When using iAssemble, each item has to go on a separate line; multi quantity items are not allowed. For example: a 2 pc Suit has to be scanned as suit pants, and suit jacket. If using assembly conveyor, you should also limit the max number of garments per invoice.

5. Set a reorder to ensure you always have enough tracking tags in stock.

6. Always heat seal the tags on the same location on garment for faster lookup allowing for the most efficient and productive assembly process.

7. If you are hosting your own server for multi stores, be sure to have a proper server.
   Consider CSI Hosting Services that give you peace of mind from the complexities of managing and maintaining your computers and data. To ensure the complete integrity of our hosted database, we've placed our servers in a secure hosting facility and Network Operations Center. The center uses the latest, most advanced construction techniques electronic authentication and access control system assures physical security, and a state-of-the-art video surveillance system, staffed 24/7/365 and digitally archived, monitors the centre continuously.

8. If you are using rails for assembly, and need hook# verification barcode printed, go to TMS -> reports -> conveyor labels.

9. Consider purchasing separate Epson printers for each store location, allowing for invoices to be printed on different color paper during assembly process.

Location Map

Use Location Map to see status of all the locations. Green Box indicates orders that are complete and held, yellow Box indicates orders that are scanned, allocated but not complete. White Boxes are empty locations. To view the detail of each location, simply select the location. A detail screen will be shown

Search Garment:

To Search for a garment, select Search icon then Scan the garment.
The detail of each garment and invoice is displayed.

Live Status Menu

Live Status menu displays the current live status of all garments in the system.
 Menu items are sorted by Invoice#. Click on the heading to sort by different orders like store#, invoice#, hook# etc.

Select Details to show the detail of each garment. Green check mark indicates garment is already assembled. Red Cross indicates garment has not been processed yet.
 History Icon to see the history /current Status of the invoice/items