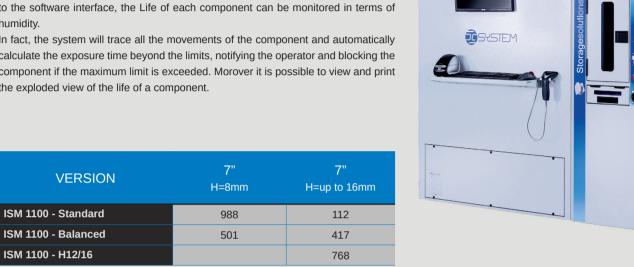
ISM 1100

The ISM1100 intelligent automatic warehouse has been specifically designed and made to achieve an optimum performance as regards storage capacity and total size. With a maximum total capacity of 1100 reels, the ISM1100 is the optimum solution for those who needs to speed up warehouse management times in a small space. Reels with dimensions 7", from 8mm to 16mm in height, can be stored in the automatic warehouse. The patented multiple outlet allows the simultaneous extraction and insertion of up to 27 reels at once. It also has a rapid outlet allowing the extraction of a single reel in record time. With the humidity control module, it is possible to adjust and monitor humidity, to maintain an internal environment below 5% RH.

In this way it will be possible to store all sensitive components correctly and, thanks to the software interface, the Life of each component can be monitored in terms of humidity.

In fact, the system will trace all the movements of the component and automatically calculate the exposure time beyond the limits, notifying the operator and blocking the component if the maximum limit is exceeded. Morover it is possible to view and print the exploded view of the life of a component.



| 13W 1100 - 1112/10 | 700 | |
|-----------------------------|---|--|
| | | |
| TE | CHNICAL DATA | |
| Dimensions: | Width: 1,735 m/ 5,69 ft | |
| | Depth: 0,920 m/ 3,01 ft | |
| Min Height (For transport): | 2,15 m | |
| Operative Height: | 2,20 m adjustable up until 2,26 m | |
| Weight: | 460kg(empty), 600kg (full cases) | |
| Power supply: | 110V - 230V; 50/60Hz | |
| Power consumption: | * average 0,2 KWh - max. 0,4 KWh | |
| | * average 0,4 KWh - max. 1,5 KWh with 8 Humidity Control Units | |
| Air supplay: | 6bar - 85 psi | |
| Air consumption: | Not needed | |
| Operating system: | Microsoft Win 7 / Win 8 / Win 10; | |
| | Microsoft Win Server 2008 / 2012 | |
| Humidity control: | up to 3 dehumifiers | |
| Other accessories: | Lcd, keyboard, Trackball | |
| | | |









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ISM1100

- Ready for INDUSTRY 4.0
- Integration ready for ERP MES P&P

Storage solutions.it division





Increase P&P lines production P&P set up preparation time saving



Operators time saving



Space saving



Avoid human mistake



MSD controlled environment (RH<5%)



Complete stock control















Hardware Options for ISM1100

| HARDWARE AND SOFTWARE | Included by default |
|---------------------------|---------------------|
| 1D manual barcode scanner | O |
| Standard PC | ⊘ |
| Full Cases | ② |
| Software CONSOLE | ⊘ |

| HARDWARE OPTIONS | On request |
|---|------------|
| Humidity Control - 3 dehumifiers | Ø |
| Fast recovery Unit | ② |
| ESD setup | ② |
| Precision Camera Reader 5MP | ② |
| Precision Camera Reader 13MP | ② |
| Extra ESD 7/15" cases | Ø |
| Extra 7/15" cases | Ø |
| (PDA)Mobile computer with 1D, 2D (datamatrix) scanner | N.A |
| 1D/2D manual barcode scanner | Ø |
| 2D Wireless manual barcode scanner | ② |
| Server PC | ② |
| External backup Hard Disk | ② |
| External Camera Station | ② |
| Barcode Label Printer | Ø |

Hardware Options Details

With the Humidity Control Module, it is possible to adjust and monitor humidity to maintain an internal environment below 5% RH

This way it will be possible to store properly all sensitive component Thanks to the software interface, the humidity floor life of each compone can be monitored in terms of humidity (RH<5%. Software unit to control MSL life of every component managed inside the ISM systems, 8 dehumidifiers, 4 sensors: internal/external RH and internal/external temperature, Display to show internal/external RH and temperature).

Areas finished with anti static paint. ESD certified cases.

FRU - Fast Recovery Unit

The Fast Recovery Unit takes humidity down to optimal levels in a very short time even after longer periods with the doors open.

It is the PC where to install the SERVER software. Separate SERVER PC shall be used to install SERVER software when customer has more than 10.000 unique ID inside his database. Specs: CPU Intel i7, 16GB RAM, 256GB SSD RAID HARD DISK.(monitor not included)

It is the PC where SERVER software and/or CONSOLE software can be installed when less than 10.000 unique ID are inside his database. Specs: CPU Intel i3, 4GB RAM, 60GB SSD HARD DISK.(monitor not

External Camera Station

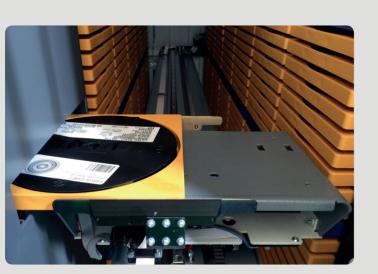
This option allows to take pictures, from a camera station that can be placed over a table. All pictures will be saved inside the DB in order to be able to visualize the picture of the reel easily. (very useful for any complain with supplier)

Precision Camera Reader 5 or 13MP

This camera allows the automatic identification of cases height.

- allows the insertions of cases of different heights.

reading of the standard 1D barcodes (for this last possibility check specifications before). Through this constant Reels Pictures Traceability Option.





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Software Options for ISM1100

SOFTWARE OPTIONS **SMT Lite Software** SMT Software SERVER THT Software SERVER re <mark>one time purchas</mark> SMT Dynamic External Storage Module THT Dynamic External Storage Module PDA Stock Management Software PDA Pick & Place extraction Management Software SMT/THT Static External Storage Option **Reels Pictures Traceability Option** API+ERP/P&P software Interfacing Option Join Button Option ould be added to t

Software Options Details

he SMT Lite software allows to control reel ID and component codes. the correct BIN/resistors setting. xtraction of material will be done by selecting manually the codes to xtract, by importing an existing .csv list or by scanning a list of barcodes. t has an easy and user friendly interface.

the SMT software SERVER is the software that allows the dynamic like any other standard kitting procedure. ontrol and the management of SMD. This software uses a dedicated ogic to manage SMD material. This software is needed to manage one r more ISM systems. It can be installed inside the Customer Server. nside an external PC or inside the PC of one ISM system (last case with a maximum of 3 ISM installed or when the customer has less than it will be possible visualize the pictures of the reel easily (very useful for 0.000 unique ID inside his database).

the THT software SERVER is the software that allows the control and API + ERP / P&P software Interfacing Option e management of THT components/material. This software use a Automatic import of items; automatic import of reels; automatic import of ustomer Server, inside an external PC or inside the PC of one ISM export sessions; export modified reels; export on commit. ystem (last case with a maximum of 3 ISM installed)

vant to check, manage and control the stock it's possible to order one common reels needed for the new job. oftware Console for each needed position

Dynamic External Storage Module

is the software that allows the control and the management of SMT aterial that can not be fitted inside ISM systems or that are allocated some external positions. This software will control in a dinamic logic e external shelves or any other external position. It shall be installed gether with SMT software SERVER. The SMT Dynamic External orage Module works together with a PDA mobile to guide the operator win CE 5.0 or higher; min. resolutions display 240x320. managing and controlling the material.

is the software that allows the control and the management of external tock. This software will control in a dinamic logic the external shelves gether with a PDA to guide the operator in managing and controlling possibility of mixing up of the codes from the operators.

his option allows to calculate automatically the number of PCBs that is sible to produce, in relation to the LEDs and resistors that are fisically ailable in stock. It will allows to divide the production in different setos, depending on the number of PCBs that is possible to produce with

SMT/THT Static External Storage Option This option allows to set material in any external position. Storagesolution software will know and will indicate to the operator the position of the material, but the picking will be done by following a standard paper list

This option allows to take a picture of each reel inserted and managed by Storagesolutions systems. All pictures will be saved inside the DB and any complaint with supplier). Pictures will be shoot automatically from the ISM internal cameras (if installed), or from an External Camera Station

edicated logic to manage THT material. It can be installed inside the boards; automatic import sessions; automatic import of file on commit;

ESSEGI Storagesolutions.it®

The JoinButton gives the possibility to join two work sessions togethe he Software Console is the interface between opearators and software even if production has already started. This allows the customer to add SERVER. If the Customer needs to have some other places where he a new product/s to an existing multi-job without having to recalculate all

This option helps to manage feeder positions and feeder types. You will have indication not only in which line the reels are, but the exact

PDA Stock Management Software

It is the software used to control Storagesolutions Dynamic Externa Storage Module through a PDA. PDA specs: Win Mobile 6.5 or higher,

PDA Pick & Place extraction Management Software

This software allows to make the extraction of the assigned stock material directly from the P&P lines. In this way all spare reels can remain inside the ISM systems until the operator will need them. This is or any other external position. It shall be installed together with the THT a big advantage in case of moisture sensitive components, as it will avoid oftware. The SMT Dynamic External Storage Module software works to have a lot of spare reels closed to the production lines and reduce the

ISM Software

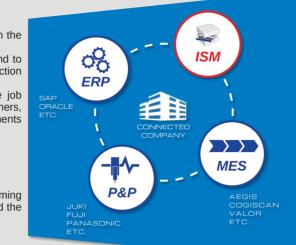
The ISM software springs from direct needs emerged in more than 18 years working in the

Thanks to a close collaboration with the most diverse realities in the electronic field and to four years of development, the ISM Software can meet the needs of the electronic production

The quantity control, component traceability, automatic extraction depending on the job order, the automatic calculation of the components used and their inventories, or others are just some of the features of this software especially designed for electronic components warehouse management of electronic components.

Life cicle reel management: incoming, tracing and updating

The software monitors the life cycle of each single reel / tube or other format, from incoming until it is exhausted, by constantly updating its position at each loading or unloading and the quantity of components still present after each production.



Stock analysis for purchases planning

The software stores the components necessary to produce a variety of boards. With this nformation the user can easily insert the number of boards to be produced and check whether in the stock is available the sufficient amount of components to complete the production or not. Otherwise, the software processes the list of missing components for the purchasing

Warehouse analysis for production planning

The software is able to analyze the availability of components for more productions at the same time, verifying the feasibility also based on the sequence of estimated launch.

Flexible set of logical tracking, analysis and extraction

The system is capable to use both linear bar codes and 2D (Data Matrix) according to customer's specification.

For example it is possible to design tailed 1D and 2D labels, set the system to extract multiple reels of the same component to speed up pick & place production or prioritize the extractions using FIFO or based on the shelf-life of the reel.



Humidity monitoring and SMD components management

If at least one of the purchased warehouses is equipped with Humidity Control Unit, the

software will track for each reel the humidity levels to which it is exposed and for how long, indicating in the analysis the components in stock that have exceeded the level of exposure

In the case of mixed systems, sensitive components can be set to be stored only in machines



GROWING SOFTWARE

Other Software Features

- SMT stock management
- THT stock management
- Externals storage management
- Mobile Software
- PDA Mobile Software
- NEW: Led Binning Management • NEW: External storage management
- NEW: Reels Pictures Traceability
- Software unit for automatic extraction from Pick and Place
- API ERP/P&P software interfacing module
- Feeder management
- F.I.F.O logic





MAKE IT SMART SPEED UP YOUR PRODUCTION



LOAD AND GO!

Simple concept, isn't it? As simple as the reasons why you should buy ISM

3622 reels in only 3m²













