

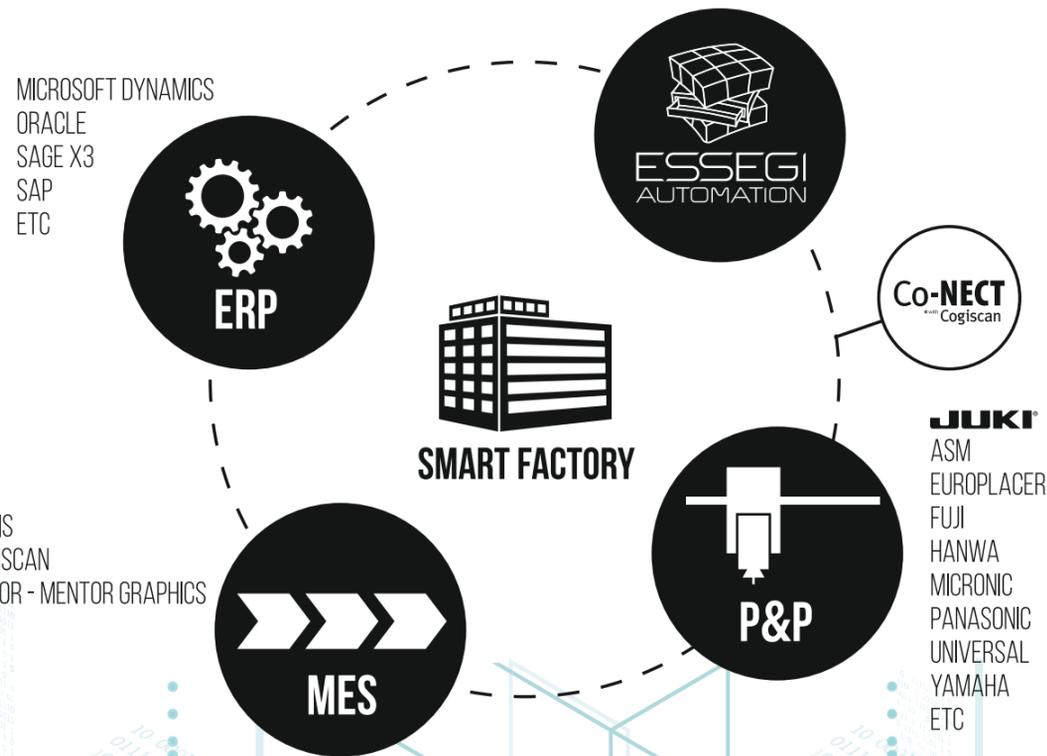
Software ISM

Thanks to the ISM Material Management Software you gain full and real control over all materials on your shop floor. You can plan and schedule your work orders more efficiently because you always have accurate information at any time, about location and exact amount of your stocks. The stops of the pick and place machines due to lack of material become a thing of the past, as you can check whether your material stocks are enough or whether you need to re-order.

Designed exclusively to fit the needs of electronic manufacturing companies, the ISM Software is available with unique features like the capability to:

- store the image taken by the ISM camera inside the storage or in the Incoming Material Station for traceability and quality purposes.
- physically segregate customers consignment parts without having to use a special area in the warehouse.
- check for alternative parts in case a component needed is not enough to complete the job or not available.
- receive low level warnings from the SMT line to immediately generate a priority extraction queue and prepare the needed material through the ISM storage.
- planning the production with extreme flexibility to make changes at any time during the execution without ever losing control and availability of the material.

STORE THE FUTURE



ESSEGI AUTOMATION

SERIE ULTRAFLEX ISM 1800, ISM 3600, ISM 3900



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Who we are

We are a worldwide manufacturer of Intelligent Storage Management solutions for SMT/THT components.

We design our ISM solutions to eliminate human errors, to reduce storage space, to decrease setup time, and to guaranty high quality, thanks to the traceability and MSL control.

Our aim is to share our experience and to suggest the best integration of our storage products into the PCB production lines.

All ISM products comply with Industry 4.0 – our Software can be integrated with any ERP system, MES system, or pick&place lines and other machines in your factory.

With our pre-sales and after-sales support and our responsiveness to custom integration, we work with customers to better understand their future technology requirements.

With our ISM storage solutions, you can STORE the FUTURE.



Why choose our Ultraflex series?

• Flexibility - patented technology

No pre-configuration required. No compromise on storage mix. With ism 1800, ISM 3600, ISM 3900 you don't need to pre-set the height of the inner positions to stock the components, because the system is able to dynamically adjust the internal subdivision of space to accommodate changing mixes of reel heights from 8 up to 88mm.

• Time saving

The fastest material management system on the market. The quickest kitting set up time. Extraction: 27 reels in 60 sec operator time. Insertion: 54 reels in 60 sec operator time

• Extraordinary capacity

The Ultraflex Series doubles the storage capacity, thanks to the special case that has two positions and to the system that is able to read two different reel codes at the same time.

• Component mix

The Ultraflex stores not only reels and JEDEC trays, but also any other material and components that fit in our cases, both 7 and 15 inches wide and up to 88mm tall.

• Modular concept

Our systems are engineered to be modular. ISM 3600 can be used independently or can be used - In combination with different systems, together with its expansion partner ISM 3900, or equipped with MIM and EEM to allow fully automatic access to the towers. - In different configurations, BACK TO BACK - two ISM 3600 - This configuration stores up to 7300 reels and uses only 7.5 square meters of floor space. One application for this configuration could be through a wall, allowing passage of components without contamination. - In combination with other warehouse solutions. thanks to the partnership with Modula S.p.A., we can provide a large storage capacity to save the most space possible.

The system grows with you. We enable your warehouse to continue moving forward, increasing capacity and meeting your needs, while implementing desired process changes and improvements.

• Integration

Fully automatic solution ready for industry 4.0. We can easily connect to the various P&P machines (Juki, Fuji, ASM, Yamaha, Panasonic, Universal, Europlacer, Hanwa, Micronic) and enterprise system (any ERP or MES). Thanks to an Internal Software team and to a strong partnership with Cogiscan, we can provide powerful integrated solutions to achieve any Industry 4.0 goal and become a real smart factory.

• Space saving

No empty space. Dynamic Positioning of the components. The dynamic management of the storage allows you to use all sectors of a unit, without leaving one empty. The components can be stored each time in a different position. We find a place for each item, and remember where it is. Super compact dimensions. Thanks to a design that offers high storage capacity in a more compact size.

• Humidity control

No more VACUUM BAGS. The Ultraflex series stores components without vacuum bags, because it is able to adjust and monitor humidity, to maintain an internal environment below 5% RH.

With different hardware options (up to 12 dehumidifiers, or the FRU, Fast Recovery Unit) the Intelligent Storage Solution is able to take humidity down to optimal levels in very short time even under strong humidity conditions.

Thanks to the software interface, the Floor Life of each component can be monitored: the expiration date and time is calculated and plotted with absolute precision. The software prevents the use of components whose period of exposure to humidity higher than 5% has expired. The expired components can be extracted quickly from the unit.

• Traceability

Thanks to the precision Camera Readers and Reels Picture Traceability software option the system is able to collect real-time Pictures and data of the components and issue powerful reports through which the products and process information can be traced. A comprehensive range of traceability queries are available: serial number, date code, location, product, supplier, time horizon and MSD status.

All pictures will be saved inside the database, and it will be possible to view them easily at any time (very useful for any complaint with suppliers).

• ESD set up

All areas are finished with antistatic paint. ESD certified cases ensure that sensitive electronic components remain safe and undamaged by static discharge.



Technical Data ISM 3600

Dimensions	Width = 2,520 m / 8,27 ft
	Depth = 1,450 m / 4,76 ft
Min Height (for transport)	2,35 m / 7,7 ft
Operative Height	2,40 m, adjustable up until 2,60 m (7,9 / 8,5 ft)
Weight	1000 kg (empty) - 1500 kg (full cases)
Power consumption	Average 0,2 KWh - max. 0,4 KWh
	Average 0,4 KWh - max. 2 KWh (with 12 Humidity Control Units)
Operating system	Microsoft Win 7 / Win 8 / Win 10
	Microsoft Win Server 2008 / 2012
Humidity control	Up to 12 dehumidifiers
Monitor	Touch Screen

Technical Data ISM 3900

Dimensions	Width = 2,520 m / 8,27 ft
	Depth = 1,450 m / 4,76 ft
Min Height (for transport)	2,35 m / 7,7 ft
Operative Height	2,40 m, adjustable up until 2,60 m (7,9 / 8,5 ft)
Weight	1000 kg (empty) - 1500 kg (full cases)
Power consumption	Average 0,2 KWh - max. 0,4 KWh
	Average 0,4 KWh - max. 2 KWh (with 12 Humidity Control Units)
Operating system	Microsoft Win 7 / Win 8 / Win 10
	Microsoft Win Server 2008 / 2012
Controllo Umidità	Up to 12 dehumidifiers

Technical Data ISM 1800

Dimensions	Width = 1,710 m / 5,6 ft
	Depth = 1,380 m / 4,52 ft
Min Height (for transport)	2,21 m / 7,25 ft
Operative Height	2,21 m, adjustable up until 2,27 m (7,25 / 7,44 ft)
Weight	850 kg (empty) - 1150 kg (full cases)
Power consumption	Average 0,2 KWh - max. 0,4 KWh
	Average medio 0,4 KWh - max. 2 KWh (with 12 Humidity Control Units)
Operating system	Microsoft Win 7 / Win 8 / Win 10
	Microsoft Win Server 2008 / 2012
Humidity control	Up to 12 dehumidifiers
Monitor	Touch Screen

Capacity

	ISM 3600	ISM 3900	ISM 1800
7" H= fino a 88mm	3622 reels	3840 reels	1838 reels
13/15" H= fino a 88mm	900 reels	950 reels	452 reels
7" + 13/15" H= fino a 88mm	1920 + 426 reels	1920 + 475 reels	1036 + 200 reels