

Intelligent Management System

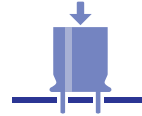
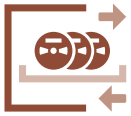
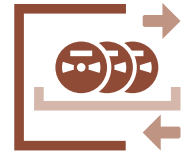
Ultraflex Series

JUKI

JUKI Smart Solutions

ISM 3600 & 3900

Increase your capacity by 100% and use 20% less footprint!



JUKI's STORAGE SOLUTION offers a range of various intelligent storage solutions for individual component storage requirements. An efficient storage system saves both time and money throughout the whole production process.

Ultraflex



FEATURE 1: Flexibility – patented technology

No pre-configuration required. No compromise on storage mix. With the 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.



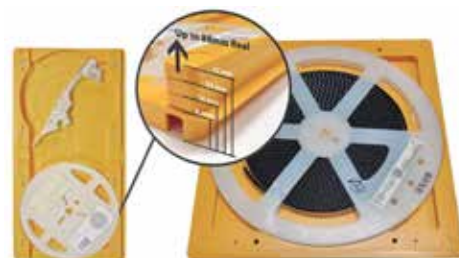
ISM Ultra Flex 3600



ISM Ultra Flex 3900

FEATURE 2: 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.



FEATURE 3: Extraordinary capacity

The Ultraflex Series utilizes ESD safe storage cases to provide flexibility and capacity. The 7" cases can hold 2 reels for maximum space efficiency. Easy to use shims are used to expand the reel width from 8mm up to 88mm. Software automatically detects the case height and stores it in the most space efficient manner.

FEATURE 4: 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.

FEATURE 5: 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.

FEATURE 6: 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.

FEATURE 7: 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.



FEATURE 8: Humidity control

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.

FEATURE 9: 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).



FEATURE 10: 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 *Powerful forced air dehumidifiers
Operating system	Microsoft Win 7 / Win 8 / Win 10 Microsoft Win Server 2008 / 2012
Humidity control	Powerful forced air 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
Humidity control	Up to 12 dehumifiers
Monitor	Touch Screen

ISM 3600 Versions

ISM 3600 - 7"	3624 reels* 7" 8 mm
ISM 3600 - 7" + 15"	1912 reels 7" 8mm + 445 reels 15" 8mm
ISM 3600 - 15"	899 reels 15" 8mm

ISM 3900 Versions

ISM 3900 - 7"	3900 reels* 7" 8 mm
ISM 3900 - 7" + 15"	1920 reels 7" 8mm + 494 reels 15" 8mm
ISM 3900 - 15"	975 reels 15" 8mm



JUKI CORPORATION HEAD OFFICE
 The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

*Please refer to the product specifications for details.
 ■JUKI Specifications and appearance may be changed without notice.

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