■specification

item \ model	ISM3600	ISM1800
Dimensions(W×D×H)	2,540 x 1,465x 2,440 mm	1,710 x 1,470 x 2,240 mm
Minimum position width	-	-
Weight	1,000kg (empty) - 1,500kg	850kg (empty) - 1,150kg
Power supply	230V;50/60Hz single phase	
Power consumption	max. 2.0kWh	max. 2kWh
Max air consumption	-	-
Air supply	-	-
Operating System	Microsoft Win XP/Win7/Win8：Microsoft Win Server 2003/2008/2012	

item \ model	ISM2000	ISM1100	ISM500
Dimensions(W×D×H)	2,560 x 1,635 x 2,440 mm	1,760x 724 x 2,220 mm	1,770x 800 x 2,220 mm
Minimum position width	-	-	34 x 620 x 100 mm
Weight	1,350kg (empty) - 1,650kg	460kg (empty) - 600kg	350kg-850kg
Power supply	230V;50/60Hz single phase		
Power consumption	max.1.5kWh	max. 0.82kWh	max. 0.8kWh
Max air consumption	35L/h	-	-
Air supply	0.4~0.6MPa	-	-
Operating System	Microsoft Win XP/Win7/Win8：Microsoft Win Server 2003/2008/2012		

MS JAB CM001 | JSA EMS JIS Q 14001 ISO 14001 JSAE389 | UKAS ENVIRONMENTAL MANAGEMENT 089

JUKI CORPORATION HEAD OFFICE

An environmental management system to promote and conduct the following:
(1) Eco-friendly development of products and technologies
(2) Green procurement and green purchasing
(3) Energy conservation (reduction in carbon-dioxide emissions)
(4) Resource saving (reduction of papers purchased, etc.)
(5) Reduction and recycling of waste
in the activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

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Distributor: JUKI CORPORATION
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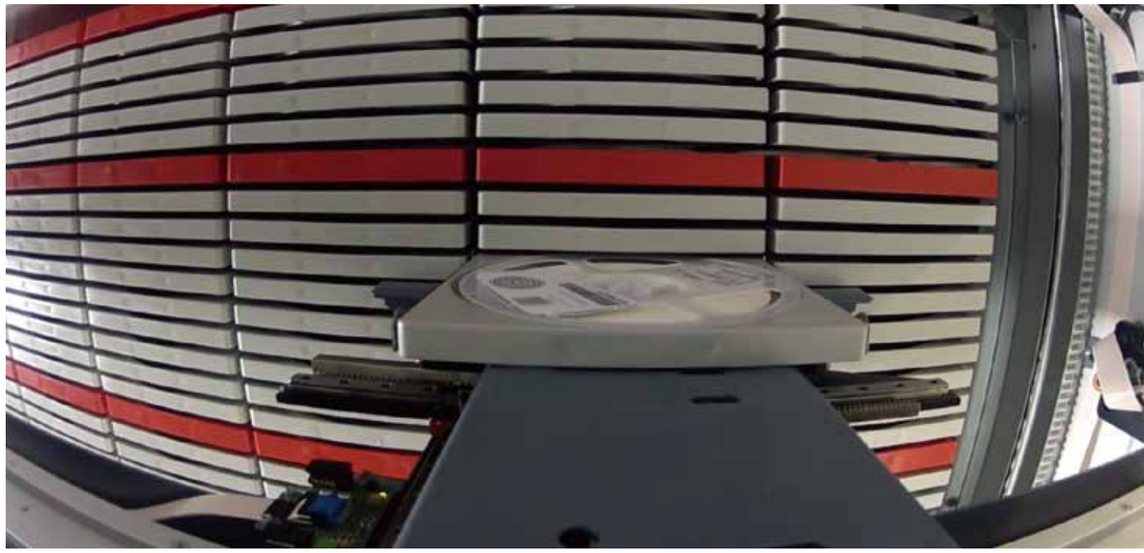
Oct-2017/Rev.06

Intelligent Storage Management System

ISM Series

-Your solution partner- 80th Global & Innovative



ISM Series handles all your component management needs

ISM Series's Feature

How many items can you check?

1 ☐Provides humidity control
2 ☐Supports components in a bag or strip tape
3 ☐Process components using first in first out.
4 ☐Labor savings results in quick ROI
5 ☐Intelligent storage simplifies parts retrieval
6 ☐Simplifies parts retrieval
7 ☐Eliminates duplication orders
8 ☐Allows for more efficient use of work force
9 ☐Eliminates interruptions is stocking and resupply
10 ☐Reduces data base management of parts
11 ☐Reduces inventory counts
12 ☐Improves real-time resupply of parts

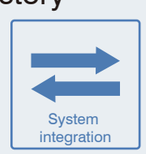
*ISM series provides solutions that save both time and money.

5 points of ISM Series' s Feature

Case correspondent

Corresponds for various of supply style

Integrates into a Smart Factory

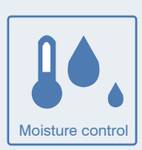


Efficiency improvement by system integration

Space savings

Reducing 70%

Moisture control



Controls Component moisturize to less than 5%

Automatic component In-Out

Pull 27 to 54 reels at a time "pulls kits"

Advanced Innovation

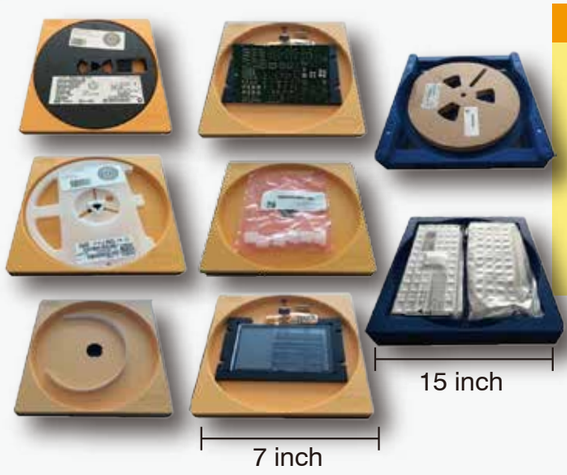
Innovative production efficiency improvement for your entire factory.

1. Case correspondent

Corresponds for various of supply style

Corresponds to ESD case

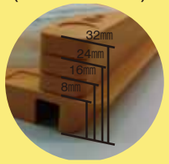
◆Corresponds to ESD case
◆Maximum storage can be up to 72mm width



ISM 3600 Cases

・Case height is adjustable for reels up to 88mm wide
・7” case holds 2 reels or JEDEC trays(7 inches reel)

7inch double case　15inch case



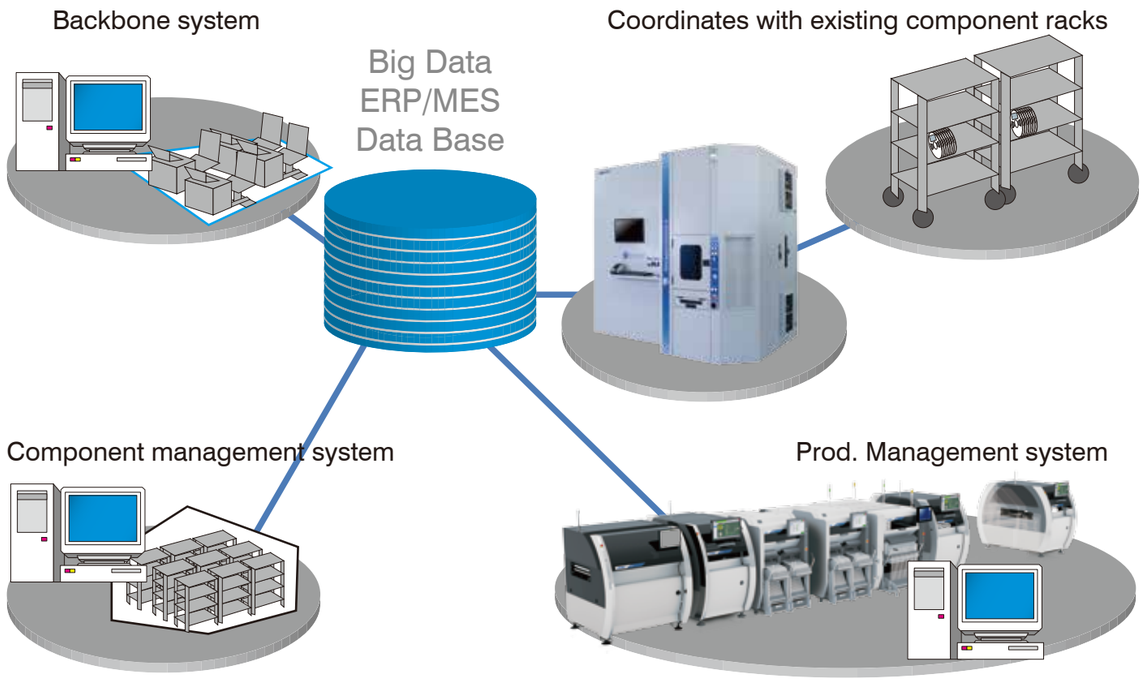
Manages by specific case

2. Realize factory solution

Efficiency improvement by system integration

System integration

◆Make further smart solution of purchasing operation by precise component management.



3. Space savings

Reducing 70%

-70%
Space saving

◆Reducing minim space and creating large storage space

Provides a smart warehouse management system with large storage space.

4. Moisture control

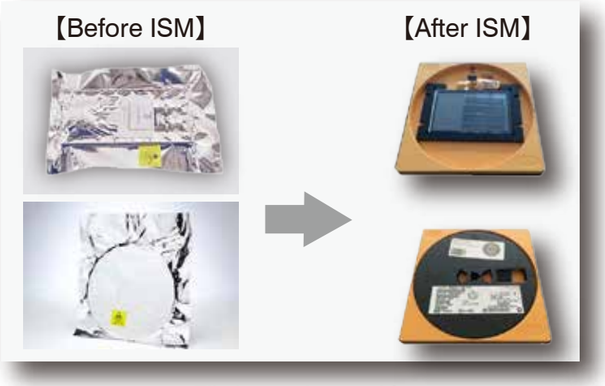
Component controls moisturize less than 5%

Moisture control

◆Manages Remaining time for MSD component
◆Moisture traceability feature
◆Eliminates manual MSD tracking

Maintains 5% or less

【Before ISM】　【After ISM】



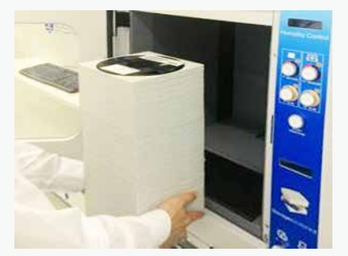
Eliminates the need for vacuum packing by using cases for MSD component

5. Automatic component In-Out

Maximum 27 or 54 at a time

Efficiency

◆No operator during extraction or return operation
◆Eliminates wrong parts being pulled
◆First-in First-out is available



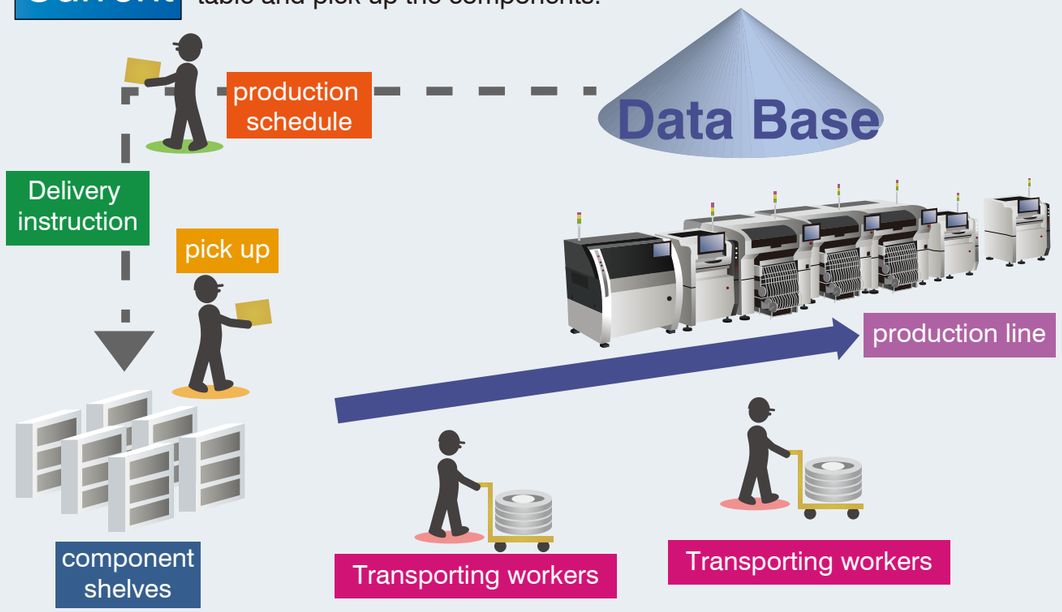
A stack of 27 reels

Pressing one button and start

Step suggestion for SMART FACTORY

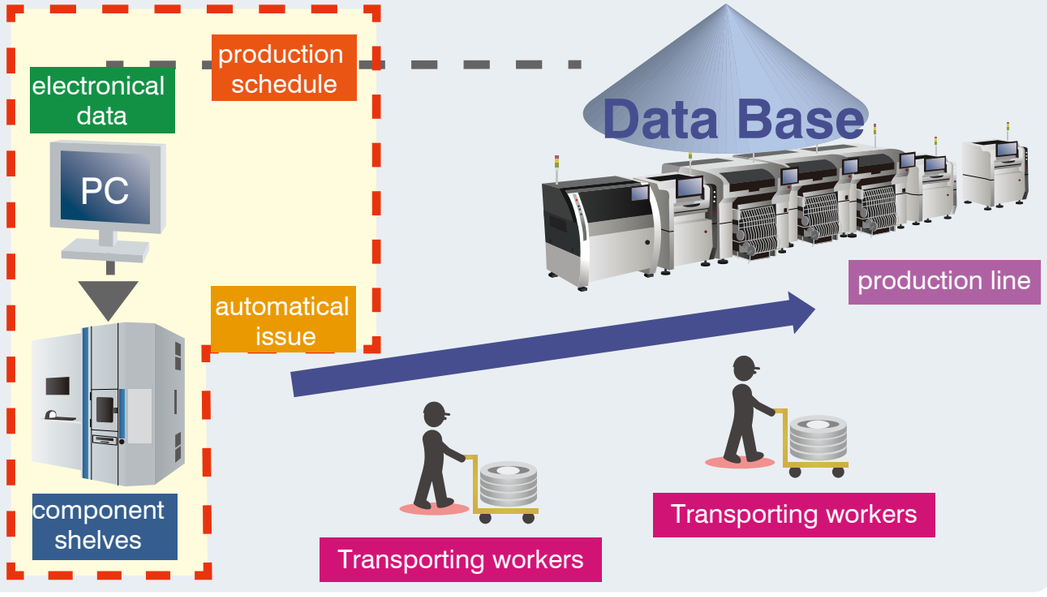
Current

Based on parts production schedule, operator print components delivery table and pick up the components.



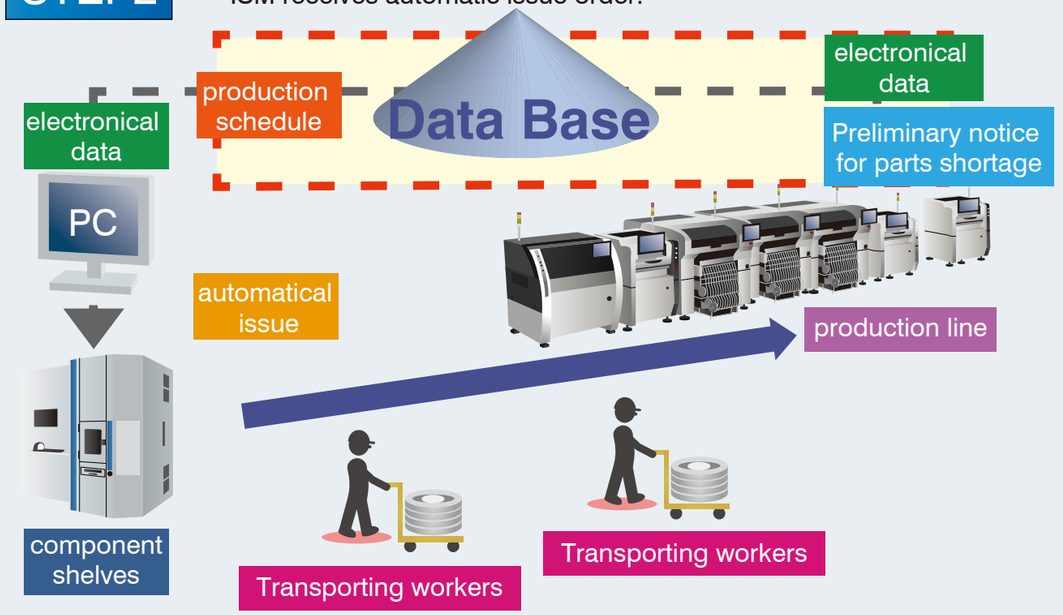
STEP1

Sending the production schedule to the ISM as an electronic file, the ISM issues the components automatically.



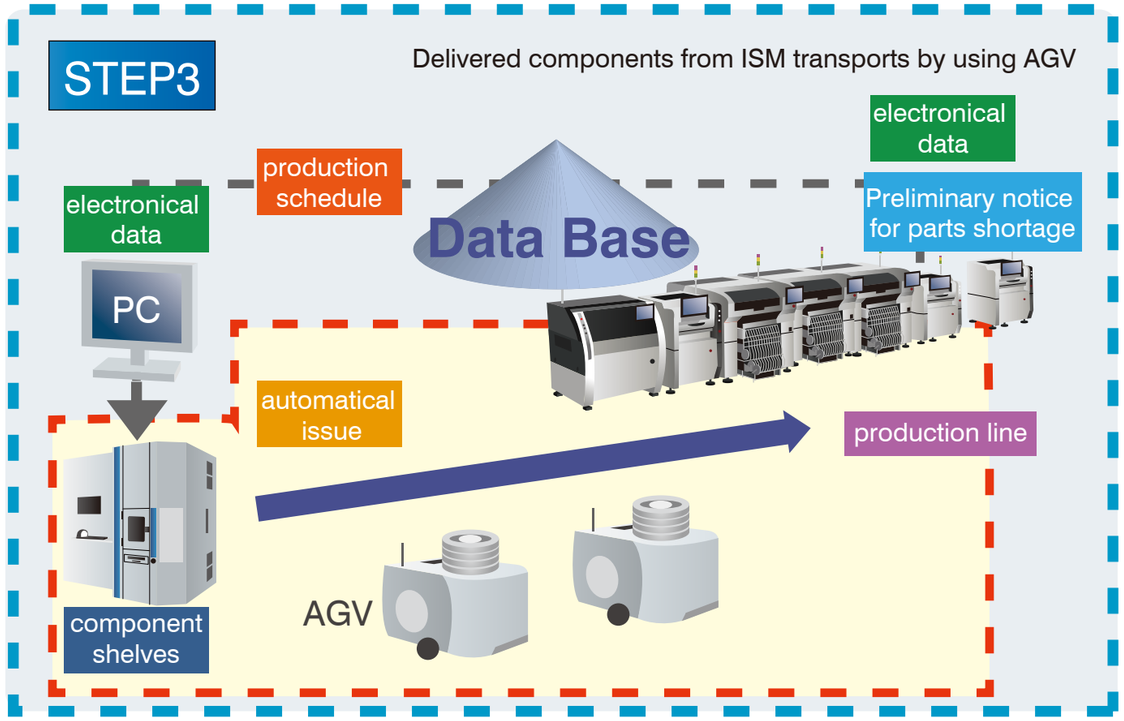
STEP2

In case of shortage out of components in production line, ISM receives automatic issue order.



STEP3

Delivered components from ISM transports by using AGV



We will work with customers to realize further SMART FACTORY.

ISM Series Fulfill lineup

Large capacity,Flexible configuration

ISM 3600

Maximum capacity of 3,600 reels can be stored in double reel cases

Warehouse Kitting

Pulling to 54 reels at a time

Ultra-Flex model compact type

ISM 1800

Maximum capacity of 1,800 reels can be stored in double reel cases

Local Line Replenishment

Pulling to 54 reels at a time

Large capacity model

ISM 2000

The maximum storage capacity allows many packaging styles from a large reel to a JEDEC tray to be stored in the system.

Pulling to 27 reels at a time

Model dedicated for 7-inch reels

ISM 1100

The space-saving feature allows up to 1,100 7-inch reels to be stored in the system.

Medium-sized general-purpose model

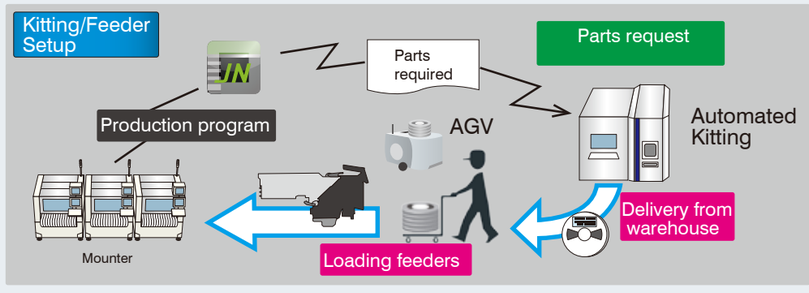
ISM 500

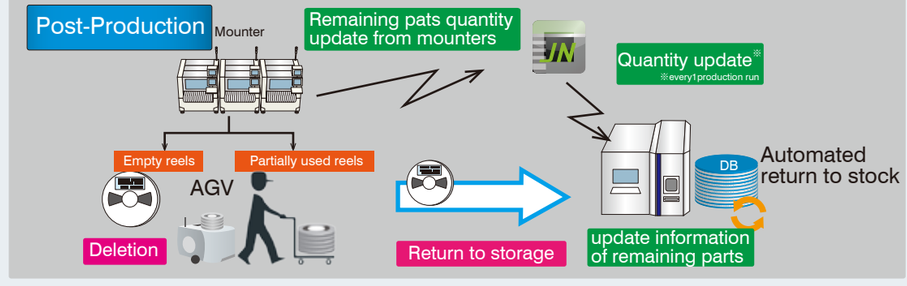
Excellent intelligent storage in general applications for a wide variety of components

Interfaces with production management software

The ISM can load a BOM via software interface with ERP/MPR software*1. An analysys is performed on the BOM to allow the operator to select the priority (received date, manufacturing date or minimum quantity needed). Based on the BOM, components are automatically extracted from the ISM by the production line, individual mounter, or one feeder bank of a specific mounter. This provides excellent flexibility for a variety of production environments and requirements. The ISM can receive data about the remaining quantity of components on each reel after production is completed.*2
The ISM is capable to communicate with X-ray Counters for real time part quantity updates.

*1 JUKI IS Lite and competitor' s production management system
*2 Contact us for the supported models or when JUKI IS Lite will support ISM.





ISM series case Quantity

	model	sub model name		Total quantity	7 inch reel			13/15 inch reel							Remarks
					8 mm	16mm	24mm	8mm	16mm	24mm	32mm	44mm	48mm	72mm	
					JEDEC tray*1			JEDEC tray							
Ultra-flex	ISM 3600*2														
		7 ”ONLY	Double reel type	**3,210**	2,520	600	90	—	—	—	—	—	—	—	In case 7 inch reel is 8mm height, ISM can hold 3,624 reels.
			Single reel type	**1,605**	1,260	300	45								
		15”ONLY	Single reel type	**608**	—	—	—	268	180	90	55	—	15	—	In case 15 inch reel is 8mm height, ISM can hold 906 reels.
		7 ”+15” MIX	Double reel type	**1,993**	1,340	320	50	125	85	40	25	—	8	—	In case 7 inch reel 8mm height, ISM can hold 970 reels. In case 15 inch reel 8mm height, ISM can hold 426 reels.
			Single reel type	**1,138**	670	160	25								
	ISM 1800*2														
		7 ”ONLY	Double reel type	**1,644**	1,312	282	50	—	—	—	—	—	—	—	In case 7 inch reel 8mm height, ISM can hold 1,838 reels.
			Single reel type	**822**	656	141	25								
		15”ONLY	Single reel type	**297**	—	—	—	140	74	36	30	—	17	—	In case15 inch reel 8mm height, ISM can hold 452 reels.
		7 ”+15” MIX	Double reel type	**1,039**	688	168	46	66	37	19	9	—	6	—	In case 7 inch reel 8mm height, ISM can hold 1,036 reels. In case 15 inch reel 8mm height, ISM can hold 200 reels.
			Single reel type	**588**	344	84	23								
Large capacity	ISM 2000														
		7 ”ONLY		**2,059**	1,846	213	—	—	—	—	—	—	—	—	
		STANDARD		**1,368**	986	113	—	—	177	92	—	—	—	—	
		BALANCED		**860**	384	44	—	—	295	137	—	—	—	—	
		XL		**809**	384	44	—	—	295	—	—	86	—	—	
		XXL		**769**	366	42	—	—	295	—	—	—	—	66	
Model dedicated for a 7-inch reel	ISM 1100														
		STANDARD		**1,100**	988	112	—	—	—	—	—	—	—	—	
		BALANCED		**918**	501	417	—	—	—	—	—	—	—	—	
		H12/H16		**768**	—	768	—	—	—	—	—	—	—	—	

*1 Case height is adjustable for ISM3600 and ISM1800
*2 Case height is adjustable for reels up to 88mm wide

	model	sub-model	Total quantity position	shelves	height of shelves:100mm		height of shelves:180mm		height of shelves:380mm	
					—		7 inch reel		7/13/15 inch reel	
					stick					
					JEDEC tray					
					position*	shelves	position*	shelves	position*	shelves
Medium-sized general-purpose model	ISM 500									
		06 STANDARD	**240**	**6**	—	—	80	2	160	4
		10 Shelves	**400**	**10**	—	—	400	10	—	—
		16 Shelves	**640**	**16**	560	14	80	2	—	—

* The size of a position is width 34mm , depth is 620mm.