# Specification

| | ISM 3600 | ISM 3600 F.A. | ISM 1800 |
|---|---|---|---|
| Dimensions（W×D×H[with HCU]） | 2,533×1,673×2,453[2,722] mm | 2,532×1,673×2,453[2,722] mm | 1,710×1,622×2,217[2,486] mm |
| Weight | 1,133kg（empty）−1,685kg（with case） | 1,196kg（empty）−1,763kg（with case） | 826kg（empty）−1,015kg（with case） |
| Power consumption | Single phase 200−230V;50/60Hz | | |
| Air consumption[with HCU] | 0.3kW [1.6kW *1] | 0.3kW [1.6kW *1] | 0.3kW [1.6kW *1] |

| | ISM 1100 | ISM 500 | ISM 3900 |
|---|---|---|---|
| Dimensions（W×D×H[with HCU]） | 1,735×936×2,200 mm | 1,755×799×2,185 mm | 2,534×1,379×2,453[2,722] mm |
| Weight | 460kg（empty）−600kg（with case） | 505kg（empty・6 shelves）−940kg（empty・16 shelves） | 1,090kg（empty）−1,706kg（with case） |
| Power consumption | Single phase 200−230V;50/60Hz | | |
| Air consumption[with HCU] | 0.3kW [0.82kW *2] | 0.1kW [0.7kW *3] | 0.3kW [1.6kW *1] |

## ISM 3600, 3600 F.A., 3900, 1800, 1100    Case quantity

| Model | Sub model name | | Type | Total Quantity | 7″reel | | | 13″/15″reel | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 8 mm | 16 mm | 24 mm | 8 mm | 16 mm | 24 mm | 32 mm | 44 mm | 48 mm |
| ISM 3600 | 7″ONLY | Double case | A | 3,218 | 2,520 | 600 | 98 | – | – | – | – | – | – |
| | | | B *4 | 3,338 | 2,942 | 396 | – | – | – | – | – | – | – |
| | | | C *4 | 3,452 | 3,452 | – | – | – | – | – | – | – | – |
| | | Single case | A | 3,158 | 2,472 | 592 | 94 | – | – | – | – | – | – |
| | | | B *4 | 3,354 | 2,962 | 392 | – | – | – | – | – | – | – |
| | | | C *4 | 3,560 | 3,560 | – | – | – | – | – | – | – | – |
| | 15″ONLY | Double case | A | 605 | – | – | – | 270 | 180 | 86 | 55 | – | 14 |
| | | | B *4*5 | 574 | – | – | – | 30 | 446 | 98 | – | – | – |
| | | Single case | A | 602 | – | – | – | 271 | 179 | 84 | 55 | – | 13 |
| | | | B *4*5 | 572 | – | – | – | 30 | 444 | 98 | – | – | – |
| | 7″+15″MIX | Double case | A | 1,989 | 1,340 | 320 | 46 | 125 | 85 | 40 | 25 | – | 8 |
| | | | B *4*6 | 1,988 | 1,348 | 372 | – | 12 | 207 | 49 | – | – | – |
| | | | C *4*6 | 2,089 | 1,824 | – | – | 10 | 195 | 60 | – | – | – |
| | | Single case | A | 1,964 | 1,324 | 314 | 44 | 126 | 84 | 40 | 24 | – | 8 |
| | | | B *4*6 | 2,076 | 1,610 | 200 | – | 12 | 206 | 48 | – | – | – |
| | | | C *4*6 | 2,182 | 1,920 | – | – | 10 | 192 | 60 | – | – | – |
| ISM 3600 F.A. | 7″ONLY | Single case | | 3,128 | 2,452 | 588 | 88 | – | – | – | – | – | – |
| | 15″ONLY | | | 591 | – | – | – | 262 | 175 | 88 | 52 | – | 14 |
| | 7″+15″MIX | Single case | | 1,950 | 1,312 | 316 | 48 | 119 | 82 | 41 | 25 | – | 7 |
| ISM 3900 | 7″ONLY | Double case | | 3,418 | 2,678 | 636 | 104 | – | – | – | – | – | – |
| | | Single case | | 3,352 | 2,626 | 626 | 100 | – | – | – | – | – | – |
| | 15″ONLY | | | 643 | – | – | – | 287 | 191 | 91 | 58 | – | 16 |
| | 7″+15″MIX | Double case | | 2,033 | 1,348 | 320 | 46 | 140 | 96 | 45 | 28 | – | 10 |
| ISM 1800 | 7″ONLY | Double case | | 1,640 | 1,312 | 282 | 46 | – | – | – | – | – | – |
| | 15″ONLY | | | 297 | – | – | – | 140 | 74 | 36 | 30 | – | 17 |
| | 7″+15″MIX | | | 1,039 | 688 | 168 | 46 | 66 | 37 | 19 | 9 | – | 6 |
| ISM 1100 | STANDARD | | | 1,100 | 998 | 112 | – | – | – | – | – | – | – |
| | BALANCED | | | 918 | 501 | 417 | – | – | – | – | – | – | – |
| | H12 / H16 | | | 768 | – | 768 | – | – | – | – | – | – | – |

## ISM 500    position

| Model | Sub model name | Total Quantity Position | Shelves | Hight of shelves：100 mm — | | Hight of shelves：180 mm 7″reel | | Hight of shelves：380 mm 7″/13″/15″reel | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Position | Shelves | Position | Shelves | Position | Shelves |
| ISM 500 | 06 STANDARD | 240 | 6 | – | – | 80 | 2 | 160 | 4 |
| | 10 Shelves | 400 | 10 | – | – | 400 | 10 | – | – |
| | 16 Shelves | 640 | 16 | 560 | 14 | 80 | 2 | – | – |

# JUKI

# ESSEGI AUTOMATION

Intelligent Storage Management System

# *ISM Series*

focus on storage solutions

# JUKI Smart Solutions

# What is *ISM Series*

***ISM Series*** is basically an automatic warehouse.
ISM can load and unload parts automatically.
BUT not only that, ISM is also a solution that manages
parts efficiently and effectively.

*Many practical benefits*

☐ Reduces inventory counts

☐ Follows FIFO order

☐ Prevents from collecting errors

☐ Simplifies parts data retrieval

☐ Eliminates duplication

☐ Saves spaces

☐ Humidity control and MSD tracking

☐ Bag and cut tape management

☐ More efficient use of work force

☐ Thorough management of records

# *ISM Series* Lineup

AMR integrated model
## *ISM 3600 F.A.*

**7"** **15"**

Large capacity,
flexible configuration
## *ISM 3600*

**7"** **15"**

Compact size
## *ISM 1800*

**7"** **15"**
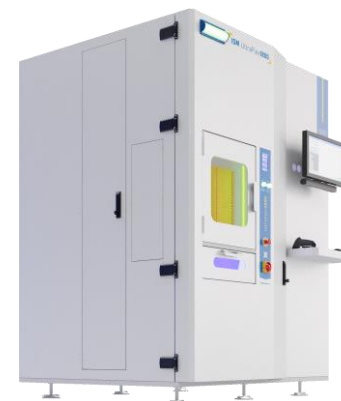
7inch reels only
## *ISM 1100*

**7"**

Semi-automatic
Storage cabinet
## *ISM 500*

**7"** **15"**

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Pick-To-Light Dynamic Storage
## *Smart Rack Mobile*
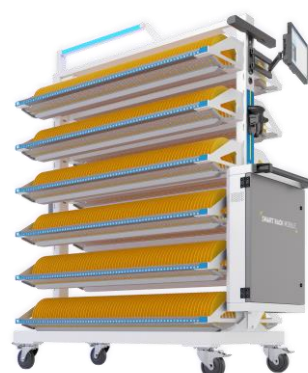
Storage extension module for ISM3600
## *ISM 3900*

**7"** **15"**
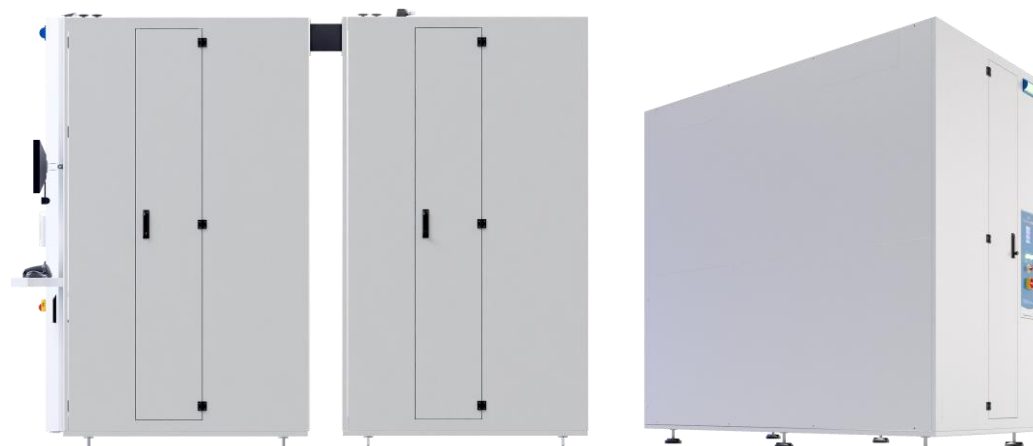
Parts Registration System
## *Incoming Material Station 2.0*

ISM software server
## *AutoSMD*

Visualization
## *Dashboard*

# Cases



ESD SAFE



ITEM-FRIENDLY

⊘ 3 types



Available for JEDEC tray

7" Single case    7" Double case    15" case

⊘ Thickness adjustable

Maximum 88mm

Optimize storage space


Max 88 mm
16 mm
8 mm
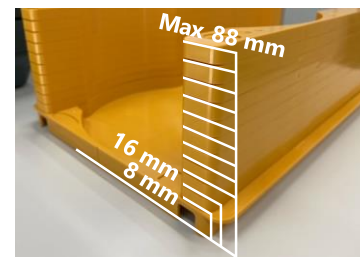
⊘ Available for various parts

For individual/spare parts and tray.

General purpose case compatible (OP)



※NON-ESD

# *ISM Series* Features
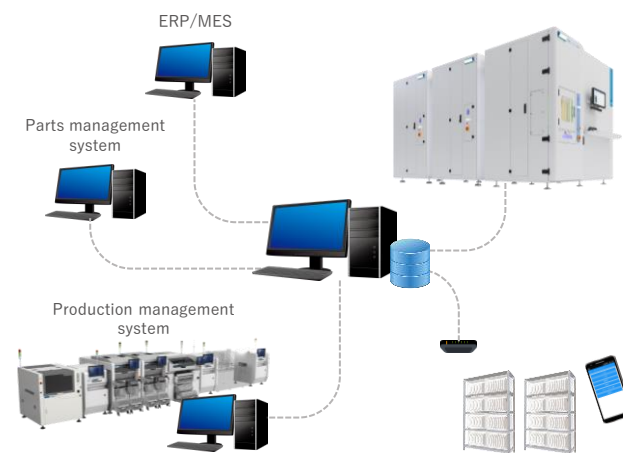
## Insertion & Extraction at one time



- Cases can be stock up to 27/54 reels at one shot
- Load & unload one place without walking around the warehouse

## System Integration



- File exchange and Web API standard
- Inventory, location, and MSL management
- Integration with core systems and others

ERP/MES

Parts management system

Production management system

## Easy Layout

- Easy to relocate*1
- Scalability

※1 Please consult with us in advance

## Saving Spaces



- Save upper dead space
- Free location

## Traceability

- Traceability in each parts
- Defective parts traceability

## Humidity Control

- Dehumidifier can be equipped *2
- System management of floor life *3

※2 Dehumidifier is equipped on top of a machine. Please refer to the spine for dimensions.

※3 Moisture absorption life when exposed to air after opening moisture-proof packaging.

## External Shelf Management



- Normal shelf and drybox managed by ISM server
- No limitation on shape, size or weight

## Skill Less

- Easy and simple operation
- Take less time



Humidity and temperature records
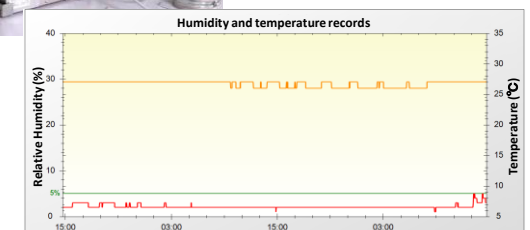
# *ISM Series* Before & After

→ → → Setup and production → Counting / Traceability

## Before
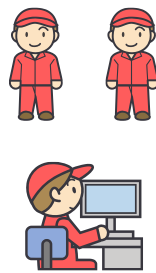
**Registration**
- Manual operation
- Double checking by 2+ people
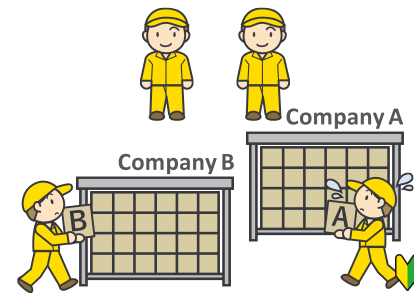
**Load & reload**
- Company A
- Company B
- Fixed location
- Separate management for each customer
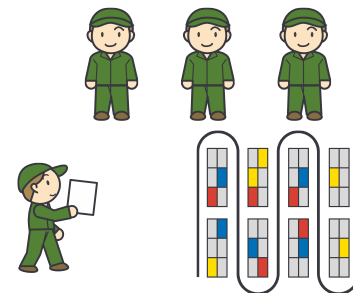
**Unload**
- Walk around shelves
- Right-In / Left-Out
- Picking errors
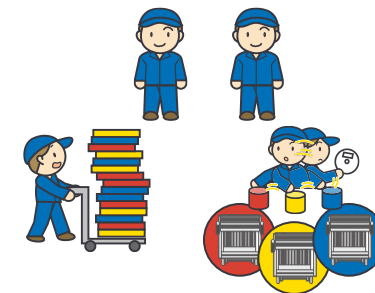
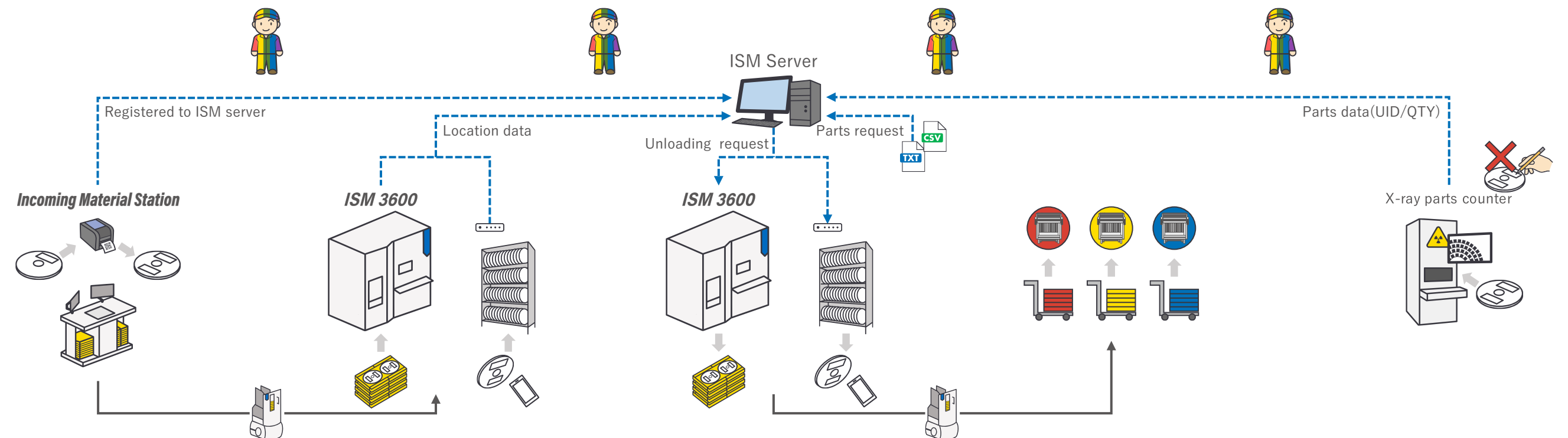**Setup and production**
- Sorting work for each trolley
- Rearranging in the order of feeders (cassettes)

**Counting / Traceability**
- Counting
- MSL calculation
- Inventory

## After

ISM Server

Registered to ISM server

Location data

Unloading request

Parts request

CSV
TXT

Parts data(UID/QTY)

**Incoming Material Station**

**ISM 3600**

**ISM 3600**

X-ray parts counter

☑ IMS auto recognision
☑ Checking by software
☑ Printing label
☑ Picture traceability

☑ Auto-loading
☑ Free location
☑ Management regardless of customer
☑ External shelves integrated

☑ Auto-unloading
☑ FIFO followed
☑ No human error

☑ Loading by cart
☑ Auto unload in feeder order

☑ X-ray counter
☑ MSL report
☑ Inventory with data

**AUTO MATION** · **SPACE SAVING** · **NO HUMAN ERROR** · **SYSTEM INTEGRATION** · **SKILL LESS** · **EASY INVENTORY**