



## AS/RS

IHI high-rise automated storage/retrieval system (ASRS) are easily accessible to anyone. High-rise automated storage/retrieval system (ASRS) allow a larger storage capacity by storing items vertically in multi-story racks. Our wide-ranging product line-up includes pallets, cases, cartons, and buckets, and also addresses special environments such as freezers, explosion-proofing, and clean facilities.

### The benefits of automated storage/retrieval systems(AS/RS)

#### 1. Automated storage/retrieval system(ASRS) help save space

Our automated storage/retrieval systems (ASRS) have an integrated structure of racks (shelves) and cranes that enables vertical storage of items and maximum use of space up to the ceiling, which is the most important feature of automated storage/retrieval systems (ASRS).

#### 2. Automated storage/retrieval systems(ASRS) are accessible to anyone

Automated storage/retrieval systems (ASRS) can be controlled with a single touch of the touch panel or with the barcode reader. Introducing an automated storage/retrieval system (ASRS) helps drastically reduce time and effort spent searching, walking, and retrieving. Further, a single operator can handle multiple cranes at automated storage/retrieval system (ASRS). It is also easy to introduce automatic controllable online systems (ASRS).

#### 3. Automated storage/retrieval systems(ASRS) realize simple and clear inventory control

The two major aspects of warehousing are materials handling and inventory control. Accurate inventory control usually requires special staff with a great deal of experience; however, it can be easily achieved with an automated warehouse/retrieval system (ASRS).

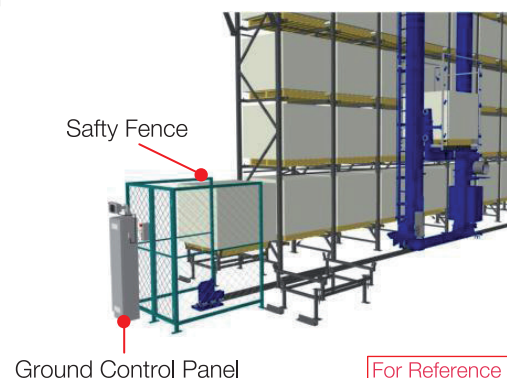
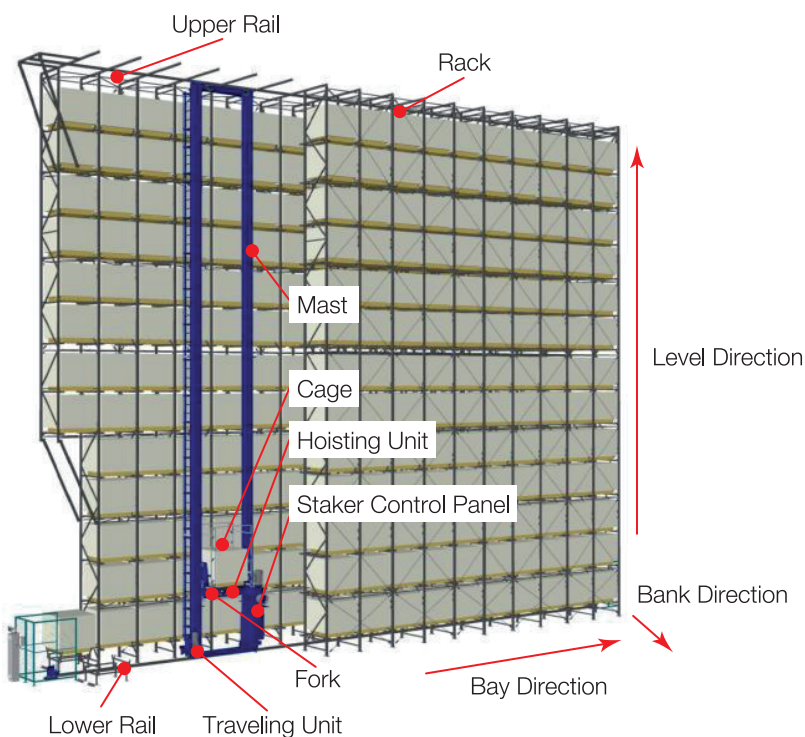
#### 4. First-in, first-out is the basic principle of automated storage/retrieval systems(ASRS)

Though first-in, last-out tends to be the case when items are laid flat, high-rise automated warehouse carry out computerized inventory control for automatic first-in, first-out operations.

#### 5. Automated storage/retrieval systems(ASRS) help enhance safety and the working environment

Automated storage/retrieval systems(ASRS) reduces material damage. In the automated warehouse, storage space is kept separate from space accessible by people. This helps enhance safety, reduce errors, and improve the working environment.

### Part name and apperance for AS/RS





## AS/RS

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### Feature of IHI AS/RS



#### Unit Type AS/RS (Rack Pack) IHI makes your storage

##### ■ Thinning & Compact

- Weight saving by remodeling with 3D CAD
- Reduction of parts by structural change
- Simple structural

##### ■ Saving Energy

- Adopting regenerative brake inverter
- Reduction of motor capacity by weight saving

##### ■ High Speed

- Realize high speed cycle by adopting new control system

### AS/RS for pallet, case and etc.



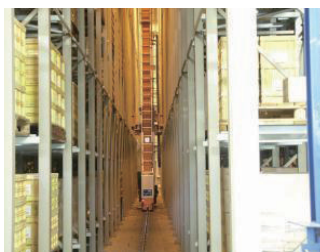
Paprt Storage



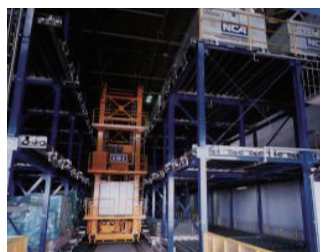
Office Document Storage



Automobile Storage



Cosmetic Item Storage



Air Cargo Storage



Foods Storage

### Increase of Storage Capacity







## AS/RS

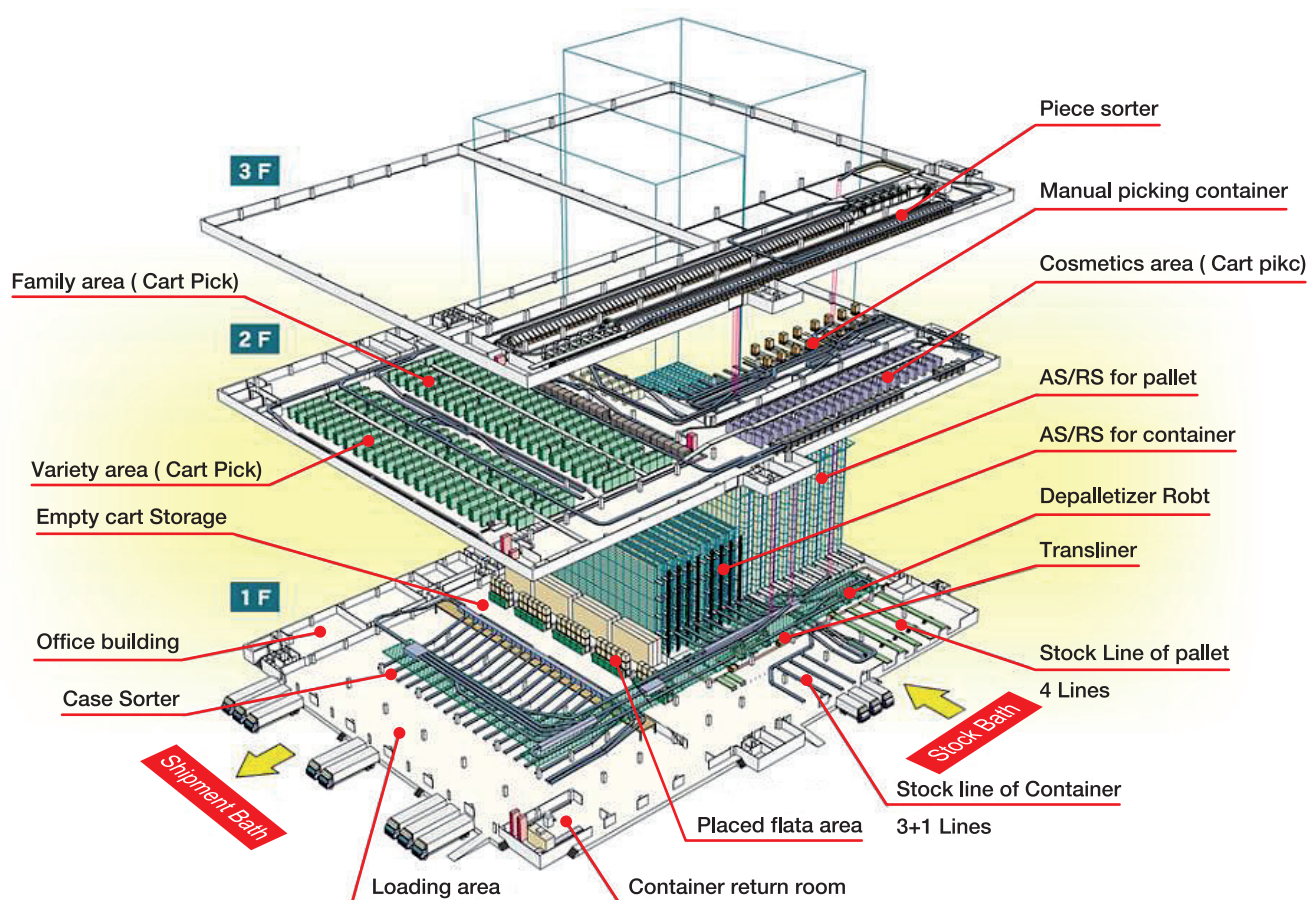
### Expreience of Factory Automation Systems and Distribution system

#### General Merchandise



#### Overview

<b>AS/RS 1</b>	8,288 shelves (8 Crane)	<b>Sorting type</b>	Shoe sorter
<b>AS/RS 2</b>	3,3120 Case (40 shuttle)	<b>Sorting capacity</b>	3,500 case/Hr
	Receiving capacity : 1,000 Case	<b>No. of chute</b>	17 chute
	Shipping capacity : 1,000 Case	<b>Picking cart</b>	100 sets
<b>Handling goods General merchndise</b>			
<b>No. of receiving case</b>		<b>Piece Sorter</b>	322 chute (Tray sorter)
Ave 11,000 Case (Max 18,000)		<b>P/D Robot</b>	4 sets
<b>No. of shipping case</b>			
Ave 10,000 Case (Max 30,000)			



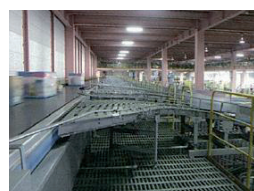
AS/RS for Pallet



AS/RS for Case



Piece Sorter



Case Sorter



Picking Cart



## AS/RS

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### Expreience of Factory Automation Systems and Distribution system

#### ■ Automobile Parts in Thailand

Max Load : 700kg  
Capacity : 104 pallets  
Rack Height : 5875mm  
Rack Width : 3840mm



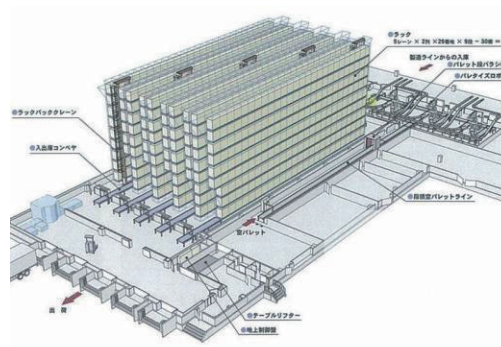
#### ■ Dairy Products

Product AS/RS (Self-Standing Type)  
3,972 Pallet, Crane 6 sets  
Material and Packing AS/RS (self-Standing Type)  
428 Pallet, Crane 1 set  
De-Palletizer 1 set  
Transliner (Loop-Type) 1 set  
AGV 3 sets



#### ■ Ice Cream

Product AS/RS (Self-Station Type)  
2,310 Pallet, Crane 5 sets  
Palletizer 3 sets  
Conveyor Lines  
Air condition System (-30°C)



#### ■ Dengerous Object

IHI has a lot of know - how to store dangerous object efficiency based on our experience of installing over 80 plants in Japan

