







Moving solutions with safety, reliability and efficiency

MATERIAL HANDLING



A HYUNDAI ELEVATOR CO., LTD.

HEAD OFFICE & FACTORY

San 136-1, Ami- ri, Bubal- eup, Icheon-si, Gyeonggi-do 467-734, Korea Tel : 82-31-644-5160 Fax: 82-2-745-4227 Homesite : http://www.hyundaielevator.co.kr E-mail : e-biz@hyundaielevator.co.kr

SEOUL OFFICE(INT'L SALES DIV.)
1-83 Dongsung-dong Jongsong Seoul 110-510 Kor

■ HYUNDAI ELEVATOR INTERNATIONAL SALES & SERVICE NETWORK

PHILIPPINES

Hyco Industrial Sales Corp.

#81 Kapiligan Cor. Bayani St., Brgy.
Dona Imelda, Quezon City, Philippines
Tel: 63-2-716-0905 Fax: 63-2-714-8896

INDONESIA

PT. Superhelindo Jaya JL. KH. Moch. Mansyur No 19B, Jakarta 10140, Indonesia Tel: 62-21-631-8444 Fax: 62-21-632-6288

THAILAND

Loxley Public Co., Ltd. Construction Materials Department 102 Na Ranong Rd, Klongtoey, Bangkok 10110, Thailand Tel: 66-2-348-8000 Fax: 66-2-240-3127/3128

BANGLADESH

Regional Traders Ltd. Karim Chamber(3rd Floor)99, Motijheel Commercial Area Dhaka-1000, Bangladesh Tel: 880-2-956-3122 Fax: 880-2-956-7377

INDI

Kinetic Escalator & Elevator Ltd. G-92, D- Ⅲ Block, Midc, Chinchwad, Pune-411.019 India Tel: 91-20-3950-2190~1 Fax: 91-20-2747-0568

PAKISTAN

Islamabad Industrial & Trading Corp. 205 Amber Estate Shahra-e-faisal, Karachi - 75350, Pakistan Tel: 92-21-432-0601-5 Fax: 92-21-432-0617

GYPT

International Eng. & Trade

10 El Hakam St., Helmeyt El Zayton Cairo, Egypt
Tel: 20-2-2241-8542 Fax: 20-2-2639-2672

U.A.E.

Arabian Elevators & Engineering Co.,Ltd.
P. O. Box : 26031, Sharjah, U.A.E.
Tel: 971-6-573-9920 Fax: 971-6-573-0962

KUWAI

Deal General Trading & Contracting Co. P. O. Box 27956 Safat, 13140 Kuwait Tel: 965-245-7925 Fax: 965-242-3510

JORDAN

Bseiso Engineering Materials Corp. P. O. Box 830681 Amman 11183, Jordan Tel: 962-656-99012 Fax: 962-656-99014

IRAN

Mehtakhr Flat No. 84 8th Flr. No. 23 Corner of 13th St. Asadabadi Ave. Tehran Iran Tel: 98-21-872-6082 Fax: 98-21-855-3741

SAUDI ARABIA

 ETA-Electromechanical & Technical Associates, Al Murjan Tower, 11th Floor, Suite #1104, Hail Street and Waly Al Add Street Intersection, P. O. Box 5691, Jeddah-21452, Saudi Arabia Tel: 966-2-652-9000 Fax: 966-2-652-9090

 Ahmed Gharamallah Al Ghamdi & Sons Co., Ltd. 16TH Cross Haneen Center, King Abdul Aziz Road, P.O.Box 1039, AlKhobar 31952, Saudi Arabia Tel:966-3-988-7556, Fax:966-3-895-3411

QATAR

International Eng. & Trade Group Co.
P. O. Box NO.22549 Doha, Qatar
Tel: 97-4-436-6689 Fax: 97-4-556-8842

AI GFF

Hash Engineering & Trade
03 Rue Saidi Ahmed-Bordj El Kiffan Palace Center, Alger, Algeri
Tel: 213-21-203785 Fax: 213-21-216444

TUNISIA

Ascenseurs Levage & Manutention(ALM)
Rue Abderrahmen Ibn Aouf Cite Uv4 Bloc 49-1004 Menzeh 6 tunis - Tunisie
Tel: 216-71-236-373 Fax: 216-71-754-361

PANAMA

Elevadores De Panama S.A.

Via Ricardo J. Alfaro, Diagonal Hospital S.M. Arcangel Republic of Panama Tel: 507-230-3166 Fax: 507-230-3187

GUATEMALA

Elevadores Otis S.A. De C.V. 17 Calle 14-53 Zona 13 Guatemala City, Guatemala Tel: 502-2381-7600 Fax: 502-2381-7676

CHINA

* Shanghai Hyundai Elevator Manufacturing Co., Ltd.

Head Office(Factory) Zhenxi Nanlu No.182, Liantang Zhen, Qingpu Qu,

Shanghai China 201716
Tel: 86-21-5981-3981/3990/3961/3971 Fax: 86-21-5981-3982

Shanghai Office
 27F, Jinxuan Bldg., No.238 Nandan Rd(East),
 Shanghai, China, 200030
 Tel: 86-21-6427-6616/9569
 Fax: 86-21-6427-4428





Logistics is competitiveness

Corporate competitiveness is started from Logistics (strategic distribution) Based on abundant experience in various industries. Hyundai Elevator can create corporate competitiveness by providing best solution of material handling system.

History

- 1984. 5 Hyundai Elevator Co., LTD. established
- Established Material Handling System Division 1989.10
- Grand prize of Customer Satisfaction & Management Innovation by

K.M.A.C awarded

Certificated After Service Certification from the Ministry of 1996.12

Trade and Commerce

• 1998. ₃ Certificated ISO 9001 and ISO 14001 Certification

from DNV for material handling system

• 2003.12 Certificated Best After Service Certification from

the Ministry of Trade and Commerce

- 2005.12 Certificated CE Mark for material handling system from TUV
- 2006.10 Certificated Korea Productivity Award from

Productivity Center



Material Handling System



Equipments



Stacker Crane





SKY-RAV







Slide Shoe Sorter









LGV



Robot



Pneumatic Tube System



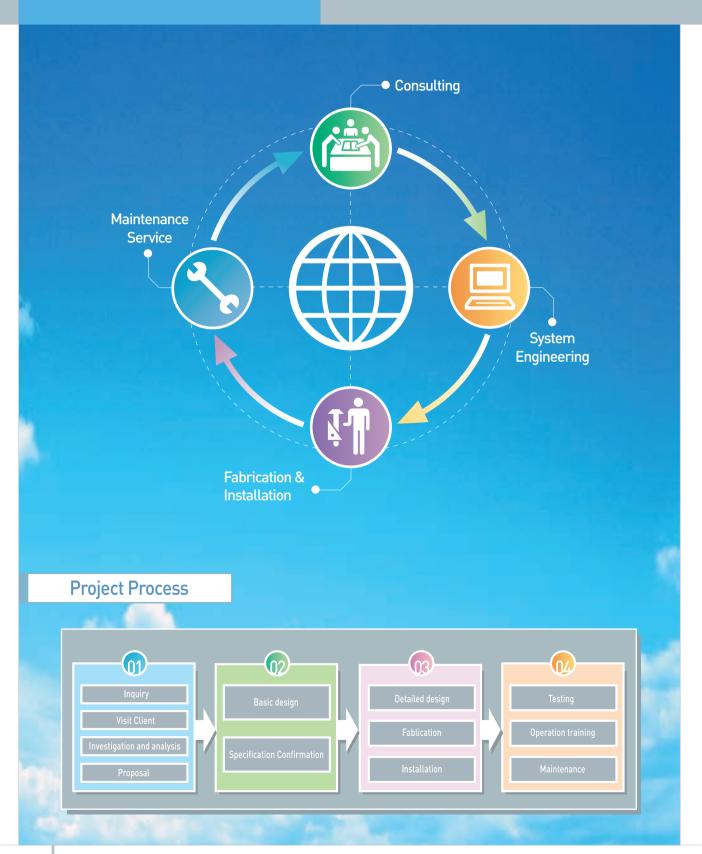
Lifter

Total Solutions for Movement

We provide optimized material handling system solutions by total engineering covers consulting, system engineering, fabrication, installation and maintenance service.



Material Handling System

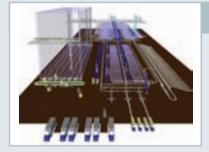




Consulting

Providing integrated system solution with rational improvement line by searching and analyzing for present problems through corporate management plan and future market estimation.

Our leading consultants will response to your request for related standards, maintenance guide line and optimized solutions.



System Engineering

Performing basic engineering to meet customer needs with practicable system layout in reasonable cost and limited delivery terms.

Extracting best solution from multi research with layout, equipment specification, IT system, simulation and other requirements.



Fabrication & Installation

Integrating suitable equipments according to detailed design on the basic engineering. Performing fabrication, installation, commissioning and training under the thorough project management with actualized schedule.



Maintenance Service

Executing preventive inspection and maintenance training service during the warranty period.

Realizing stable system operation by prompt recovery through dispatching specialist after counter measuring and analyzing the occurrence in response to urgent call.



Automated Storage & Retrieval System

Enlarging storage capacity by saving space with high-rise warehouse building and by applying automated picking facilities. Realizing high efficiency with automated handling equipment and computerized control system.



Material Handling System



Advantage

- Smaller foot print by high-rise storage building
- Improving working environment and reducing men power
- Real time accurate inventory management
- First-in, First-out for the request order
- Enlargement of counter planning with timely checking of long term and shortage of inventory

Classification

- O Type of items
- Finished goods (general food, cold food, pharmaceuticals, hazardous materials, etc.)
- Semi products (raw material, chemicals, etc.)
- Parts (automotive parts, tools and material for construction, etc.)
- O Type of load
- PalletBox or Bucket
- O Type of rack
- Unit Rack
- Rack Building





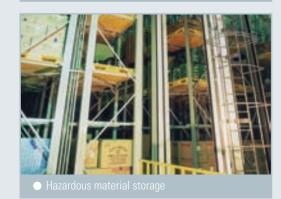


Pharmaceuticals storage



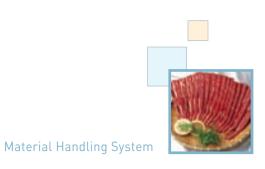


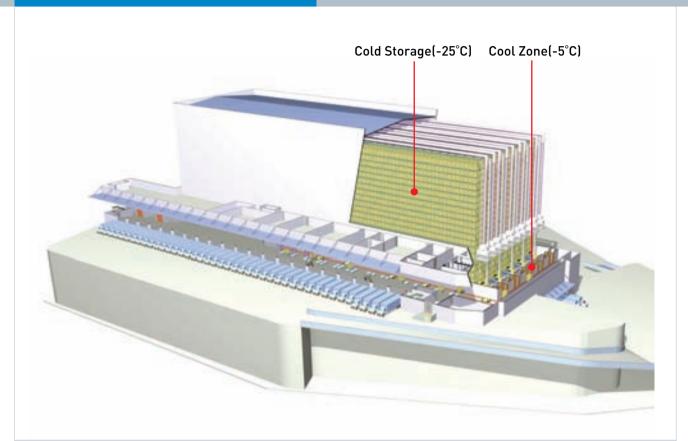






Application 1 Cold Storage



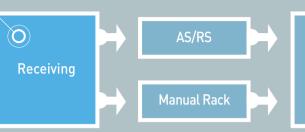


Main Equipment

- Stacker crane for cold storage
- RTV
- Storage rack



Material Flow





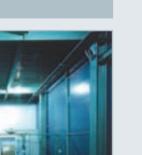


Maintenance cage

Cage for maintenance enables safe and simple inspection against error of stacker crane and/or error of load in rack.











08 www.hyundaielevator.co.kr www.hyundaielevator.co.kr 09

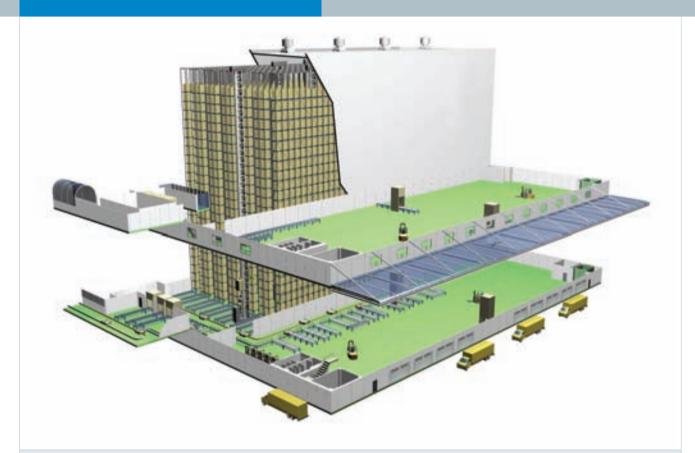


Application 2 Food storage

Executing efficient distribution and storage of food with the integrated warehouse management system, high-rise AS/RS with 50mH, manual rack and RTV system for In 8 Out put.



Material Handling System

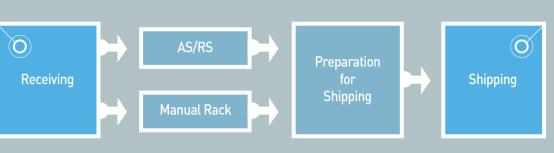


Main Equipment

- Stacker crane (50mH)
- RTV
- Manual rack
- Vertical lifter
- Conveyor

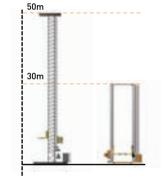


Material Flow



Feature of 50mH Stacker Crane

- Advanced technology with high speed, high capacity and high rise
- 2 Two drive application for upper and lower position of travel
- 3 Light weight by single mast with truss type
- Support structure reducing stress of mast
- 6 Application of laser sensor for positioning
- Application of shock absorber
- Maintenance cage for convenient maintenance













Application 3

Pharmaceutical Storage

GMP corresponding AS/RS, manual rack, washing machine for pallet, sample room equipment and integrated warehouse management system provide total solution of storage, distribution and returns for pharmaceutical industries.





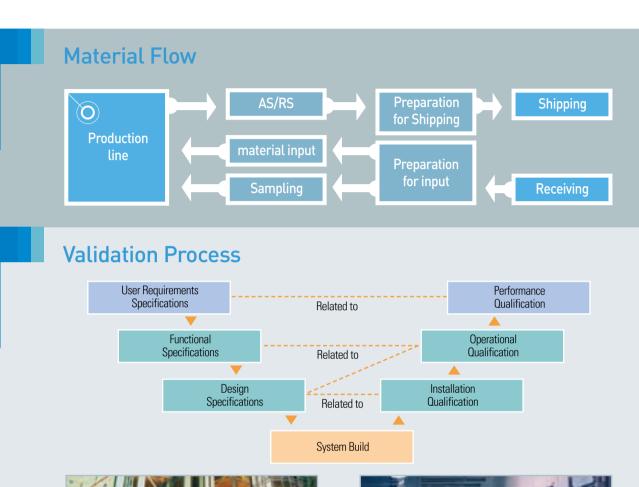
Main Equipment

- Stacker crane
- RTV
- Map cart
- Washing machine for pallet
- Manual rack
- Light weight rack
- Lifter

Basis of GMP

- Storage area : Light Black
- 2 Transfer area : Gray Zone
- 3 Production area: White Zone
- Arrival & departure area : Not Classified















Application 4

Petrochemical Storage

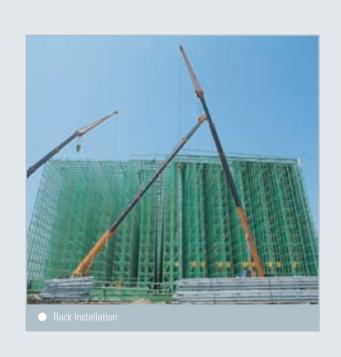






Main Equipment

- Stacker crane
- RTV
- Bagging machine
- Palletizer
- Wrapping machine
- Pallet loading machine



Material Flow



Packing line (Bagging & Palletizing)

Shipping













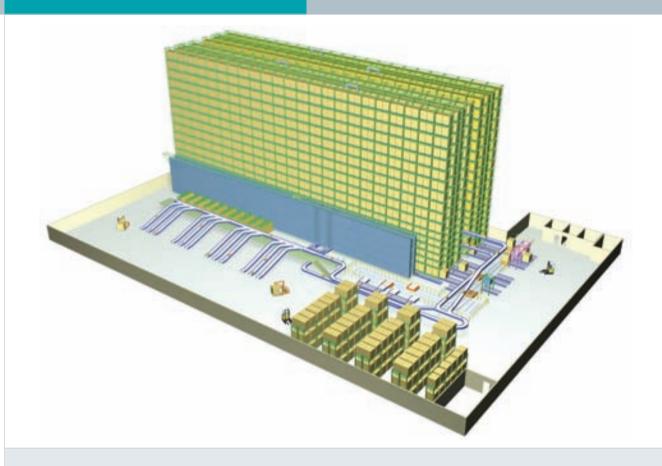
www.hyundaielevator.co.kr 15 14 www.hyundaielevator.co.kr



Distribution Center



Material Handling System



Realizing accurate and prompt delivery service by well organized distribution center.

Providing optimized solution based on the various solution providing experiences for necessities, pharmaceuticals, publications, door to door deliveries, garments and etc.

Systemized sorting system can accommodate various typed and weighted loads effectively. Supporting executive of sorting system will be provided with excellent engineering capability and with advanced technology.



Publications

AS/RS, pallet rack, bucket rack, publications storage providing total solution for storage, delivery, returns and distribution information through well organized systems with piece sorter, parcel sorter, picking and grouping equipment



Door To Door Service

Targeting prompt and safe delivery of goods. Simple structurized and maintenance-less steel belt sorter could be the best solution for the distribution center of door to door service industrials.

Various types of sorters such as slide shoe, cross belt type could be provided along with.



Garments

Providing featured trolley conveyor system for garment, digital picking system for accurate picking and well harmonized distribution system.



Distribution Center

Application 1
Publications

AS/RS, pallet rack bucket rack, piece sorter, parcel sorter DPS, RF system and integrated warehouse management system handle the total distributions covers storage groups, returns and distribution information.



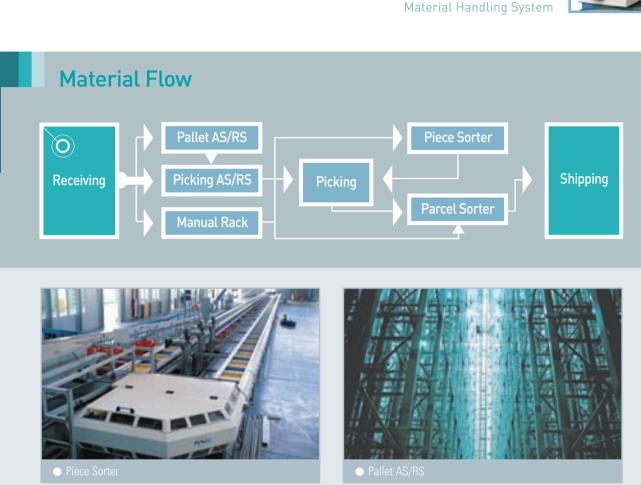


Main Equipment

- Stacker crane
- RTV
- Piece sorter (Open tray type)
- Parcel sorter (Slide shoe type)
- Pallet rack
- Light weight rack
- DPS system
- Lifter
- Telescopic conveyor



















Distribution Center

Application 2
Door To Door Service

Steel belt sorter is corresponding to the target, delivery customer goods on time safely, simple structure and maintenance-less. Steel belt sorter is suitable equipmen for the door to door service logistic center quick returns or time delivery service.

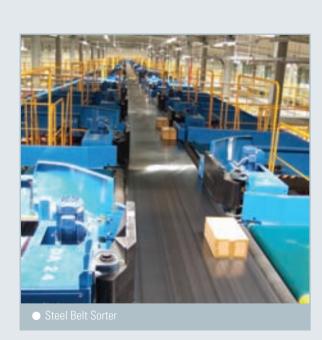


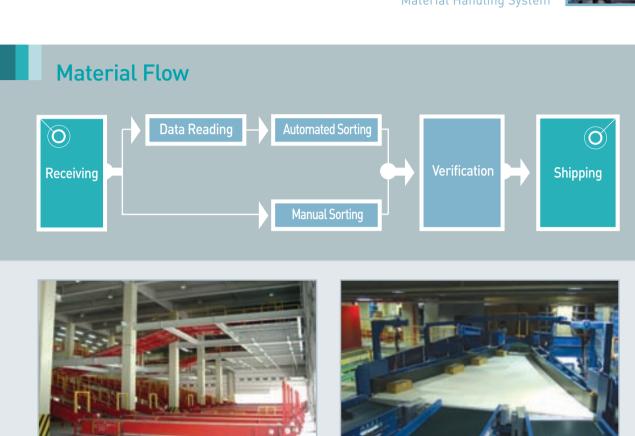
Material Handling System



Main Equipment

- Steel belt sorter
- Telescopic conveyor
- Camera type BCR
- Discharge chute
- Merge conveyor
- Manual conveyor
- Volume checker

















Distribution Center

Application 3 Garments

together with trolley conveyor system that transfer between floors and grouping the garments.

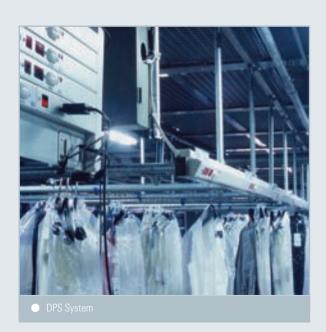


Material Handling System



Main Equipment

- Overhead conveyor
- Trolley conveyor
- DPS system



Material Flow Hanger Storage Picking Sorting Shipping



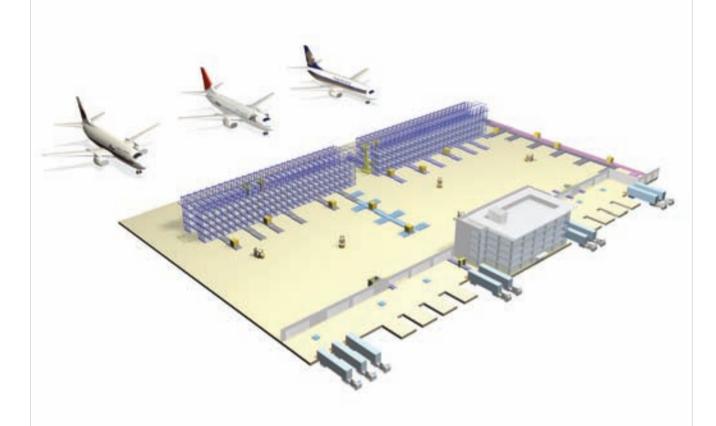




Air Cargo System



Material Handling System



















24 www.hyundaielevator.co.kr www.hyundaielevator.co.kr 25

IN-Process Automation

Optimized solution for in-process automation will be provided based on plentiful experiences for various industrials.

Material Handling System



- Speedy handling of throughput can make smooth connection between processes.
- High reliable equipment application will secure safe system operation.
- Operation solution and quantity of required equipment are verified by 3D simulation.

Unit Fack AS/RS

Classification





RTV (Robotic Transfer Vehicle)







LGV (Laser Guided Vehicle





Building & Hospital Automation

Transfer system for Building & Hospital Automation to be equipped fast, correct and noiseless transfer system organized with trace and management system.

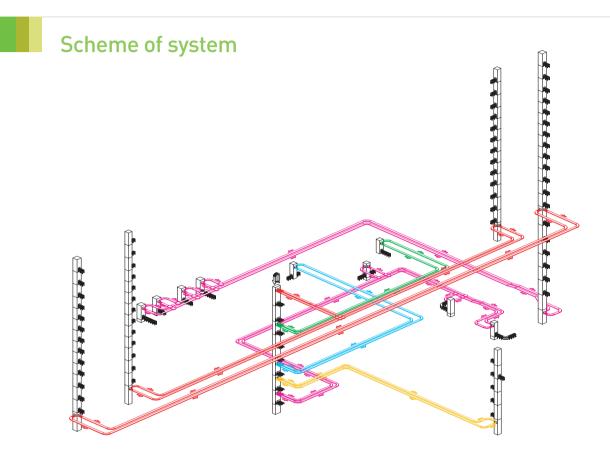


Material Handling System











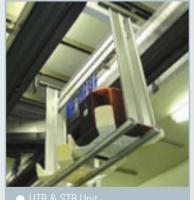
Clean Room System

Actualizing In-Line-zation of production line connected to clean depot. Transfer system minimizes lead time o transfer from process to process and also accomplishes mass transfer.











Crane for LCD



Clean Depot (Stocker)

Clean Depot is an optimal storage for exclusive cassette in clean room. Achieving unmanedization and dust-proof for the production line in exhaustively managed clean room.



RGV (Rail Guided Vehicle)

Securing highest reliability by performing high speed travel and feeding with simplified structure.



OHT (Over Head Hoist Transfer)

As an automated overhead transfer system transferring between inter-intrabay and effectively in clean room utilizing space effectively in clean room.



OHS (Over Head Shuttle)

Reducing lead time of transfer with high speed installed at the upside of clean room. This reliable system has simple structure.