

THAIINTERMAT CO.,LTD.

Intermat®

MATERIAL HANDLING INTEGRATION

Flexible Solutions by Specialist

Racking System • Conveyor System



www.thaiintermat.com



Certificate No.734966134



COMPANY PROFILE :::

History :::

THAIINTERMAT Co., Ltd was established since 1987 dealing with Material Handling and Storage Systems. We design and manufacture all kinds of Material Handling Systems such as Conveyor and Racking Systems. As a system integrated organization, we are proud of our company's reputation for effectively solving our customers' problems immediately as well as providing high quality service and very competitive prices. We have been trusted by our well-known customers such as: ELECTROLUX, MICHELIN, KELLOGG, C.P, BRIDGESTONE, KANG YONG ELECTRIC, SUMMIT, HITACHI, PROCTER & GAMBLE, NHK, HAFELE, SE-EDUCATION and MAXXIS etc.

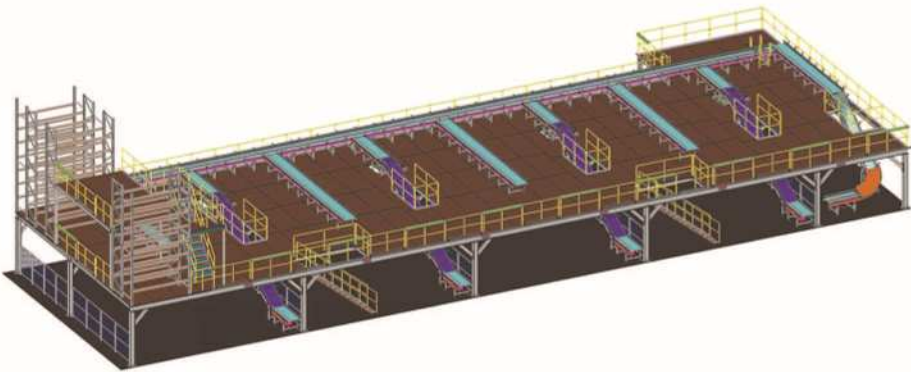
We are experts in design, construction, repair, and installation of Material Handling Systems including a wide range of Racking, Special Machines and Conveyor Systems. The company has specially qualified and experienced staff, to work efficiently in the fields of design, construction and installation of the whole works system, ranging from small scale up to much larger scale systems.



::: CONVEYOR SYSTEMS

A conveyor system is comparable to a central nervous system of your operation- It must run efficiently in order for everything else to run properly.

Businesses that ship, receive, store, handle, manufacture, or distribute as a core part of their mission, know that a conveyor system can become nothing less than their operation's physical nervous system; the one thing that must operate for everything else to function.



Good conveyor system designs require a high level of knowledge and experience. Conveyor systems must be scalable; they have to take your future into as much account as your present.

We at THAIINTERMAT, customize conveyor systems to fit individual demands to make a positive difference in efficiency, safety, and profitability for manufacturing and distribution operations.



ROLLER CONVEYOR SYSTEM :::



Roller Conveyor Line modules are suitable for the transportation of small, light and heavy products over individual demanding distances. Choosing "THAIINTERMAT" Conveyor Line modules as your solution helps you save time and money, as well as enabling you to focus on more important tasks to improve your business's overall performance.



::: CHAIN CONVEYOR SYSTEM



Chain conveyors are primarily used to transport heavy unit loads, e.g. pallets, grid boxes, and industrial containers. These conveyors can be single or double chain strand in configuration. The load is positioned on the chains; the friction pulls the load forward

Many industry sectors use chain conveyor technology in their production lines. The automotive industries commonly use chain conveyor systems to convey car parts through paint plants. Chain conveyors also have widespread use in the white and brown goods, metal finishing and distribution industries.



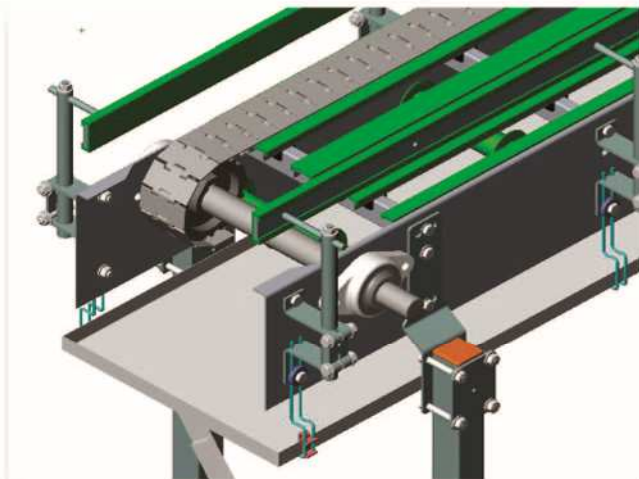
TOP CHAIN CONVEYOR SYSTEM :::



Conveyors are commonly referred to as Top Conveyors, Table Top Chain Conveyors, Bottling Conveyors or Link Top Chain Conveyors.

Applications that require a conveying surface with the following characteristics are ideal for Top Chain Conveyors:

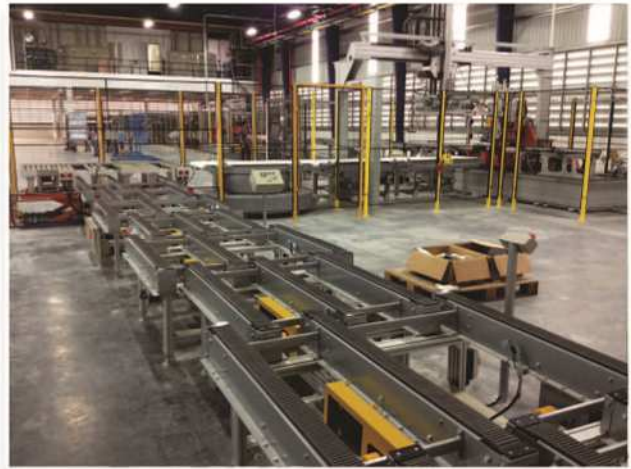
Low friction High or Low Temperature Impact Resistance Moisture, oil, chemical, cut and wear resistance



::: BELT CONVEYOR SYSTEM



This high-quality, high-performance belt conveyors is designed for conveying food products, and a variety of other light-weight goods precisely. Low cost is achieved by using shared components & through mass production. These conveyors can be used in a wide range of applications in automation systems for food products, packaging, press machinery, or for connecting between processes.

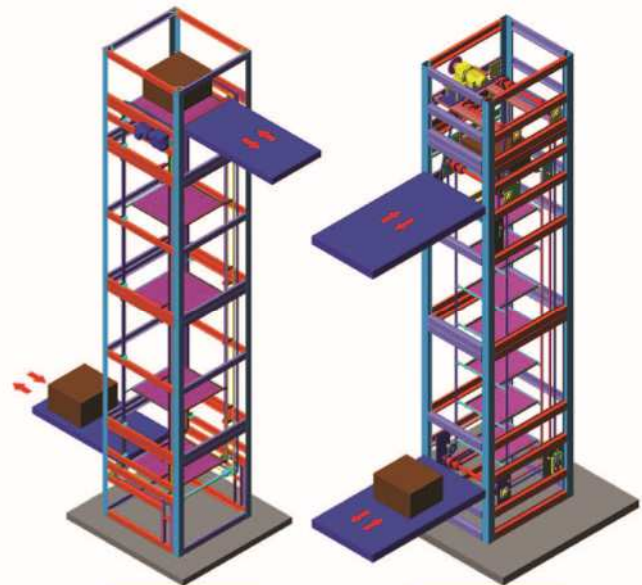


GOODS LIFT ::

Goods Lifts are suitable to convey heavy goods on pallets from the first floor to the second or third vertically. Its features are nearly the same as passenger lifts, but they differ in safety function. Goods Lifts has less safety function as it is not allowed for passengers to be inside the Good Lift.



::: CONTINUOUS LIFTS



TYPE-Z

TYPE-C

Continuous Lifts are the solution to elevate or lower containers, boxes, trays, packages, bags, luggage, Pallets and other articles from one level to another in a continuous high speed and high capacity operation.

Vertical Continuous Lifts are available as Z-Type models which can convey up to 30 items per min. or as C-Type models which can convey up to 24 items per min. The actual possible capacity depends on the size of the item conveyed. Item loads can range from under 1Kgs to over 50 Kgs Per tray

The conveyors can be used for upward direction, downward direction and combined upward and downward direction. The Vertical Lifts can be as high as 30 m.

Vertical Continuous Lifts are available in many sizes to match your product dimensions and minimize the space needed for the conveyor. Every Vertical Conveyor is designed to match your needs. Made from standardized sections we will match your on site requirements for each conveyor.

Vertical Continuous Lifts have lower Power requirements, and less needs for servicing and maintenance compared to conventional conveying systems.



SPECIAL MACHINE :::



Nowadays, most of the machine in the market have almost completely been standardized, giving no flexibility for any adjustment.

THAIINTERMAT can design and produce a Special Machine according to our customer's requirements by providing flexibility and desired specifications to our machines. We have many experienced Engineering Teams who are waiting for an opportunity to become your consultant.



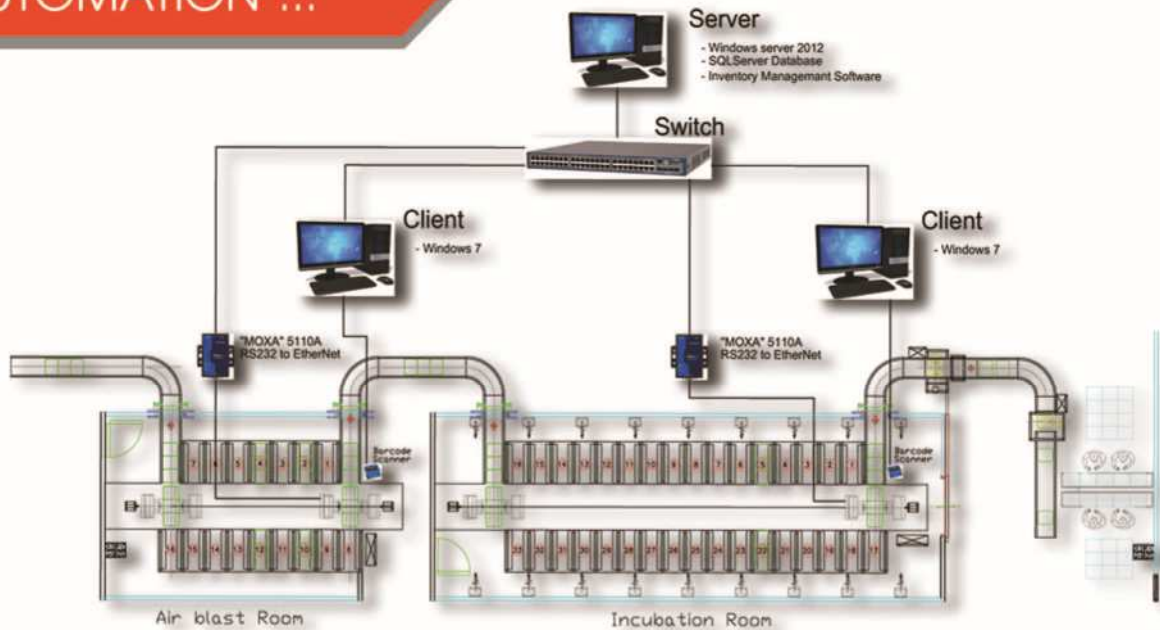
::: PALETTIZER SYSTEMS



A Palettizer is a machine combined system used to organize and stack industrial goods onto pallets. This kind of system helps reducing losses from failures to increase Realizable benefits of the investment for the operator is guaranteed. The payback period is very low (Return on Investment is between 6 months - 2 years). We are able to solve problems immediately as we face them to reduce the risk of loss for the operator.



AUTOMATION ...



Automated production control systems are very interesting to operators and stakeholders who handle mass productions. These control systems have been developed from its original manual style to a high-tech system guaranteeing a faster process with a minimum failure rate. The system's functions can be summarized as following:

- Regulation Used as an automated manner (Automatic Control).
- Prevent the manufacturing process may crash. (Interlocking Protection)
- With alarm systems and emergency management (Alarm and Emergency Management).
- Ability to modify manufacturing processes to produce various types.
- Increased control and giving feedback (Supervisor Control and Data Acquisition).



What our customers can expect from us.

- A specified control box customized to the customers product following the global IEC standard.
- High-Quality equipment best suitable with its application.
- The customer can choose between using Europe and Asian PLC devices.
- Using SCADA to increase productivity and control the production process in real-time.

RACKING SYSTEMS

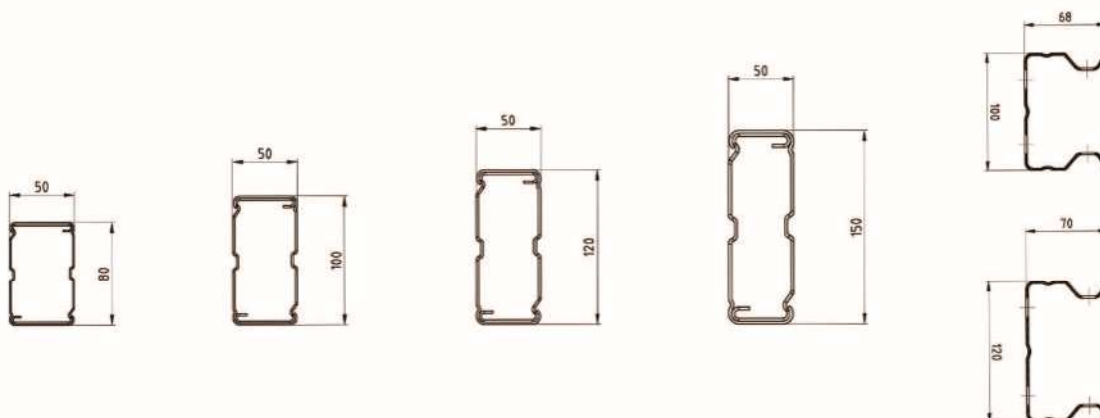


Over 20 years in the material handling business allows us to provide custom solutions to your storage and handling problems.

Our experienced crews will take on-site measurements to assure that your system fits and so we can solve obstruction issues before installation begins.

We can provide engineered drawings and will work with you throughout the design process to insure that you get the system that best suits your needs.

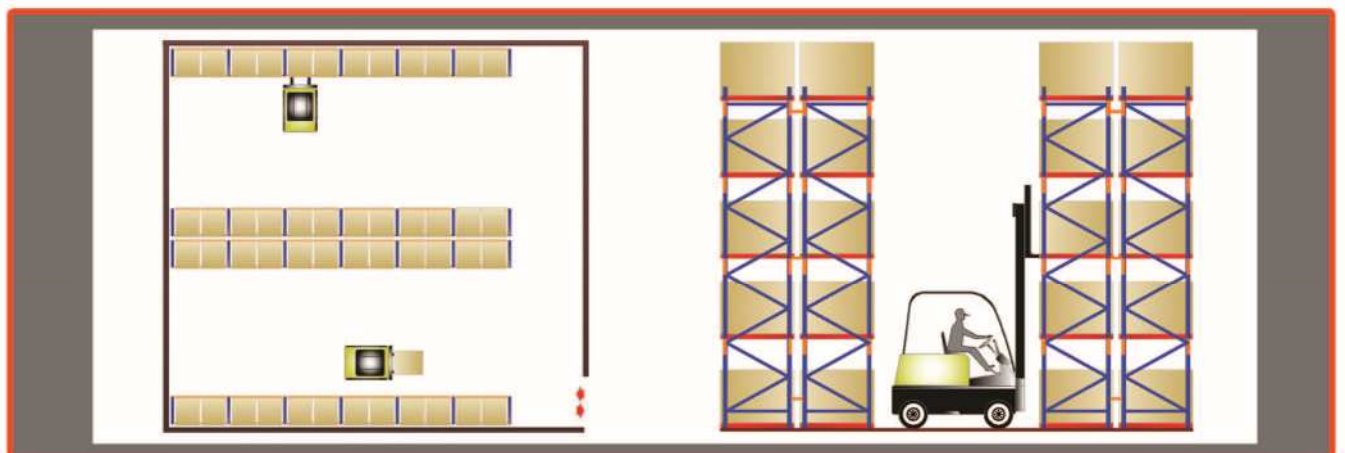
We have an in-house fabrication facility and can fabricate "problem-specific" material handling equipment that you encounter. Our installation crews are directly employed by INTERMAT (no sub-contractors) and are well trained for safety of Installation System.



SELECTIVE RACKING SYSTEM :::



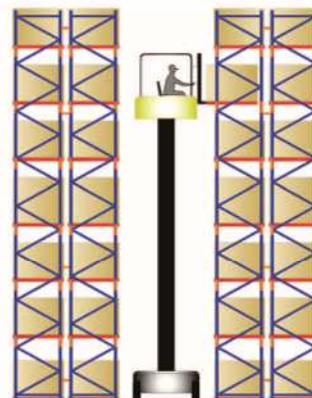
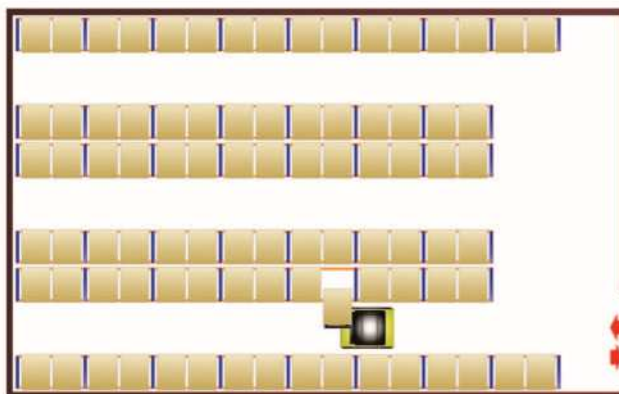
Selective Racking is the most cost effective storage system with the lowest equipment and capital costs. It provides direct access to all pallets for 100% accessibility and good stock rotation. Pallets can be located, accessed and moved individually, providing rapid handling of palletized goods. It provides easy beam adjustment and accommodates variable pallet heights. Lower level pallets can be located on the floor for picking purposes. This lowers structure costs. Alternatively additional beams can be added for lower level picking.



::: VERY NARROW AISLE RACK



Very Narrow Aisle pallet racking is generally used in warehouses which are a little tighter on space. A reduced aisle width of approximately 1.8 metres means floor space is much better utilized increasing it to 45%. Narrow aisle forklift trucks must be used but it means that you can use the space within your warehouse more efficiently. Narrow aisle trucks can lift higher and work faster than standard counter balance trucks. This will have a beneficial effect on your business. As trucks such as these do not turn in the aisles, they need a guide rail or wire guidance system. This allows them to manoeuvre around the racking with a high degree of accuracy. The advantage of using wire guidance is that it is built within the floor. This keeps the floor clear of obstructions and is easier to clean. Each pallet is easily accessible and this ensures good stock rotation.



DOUBLE DEEP RACKING SYSTEM :::

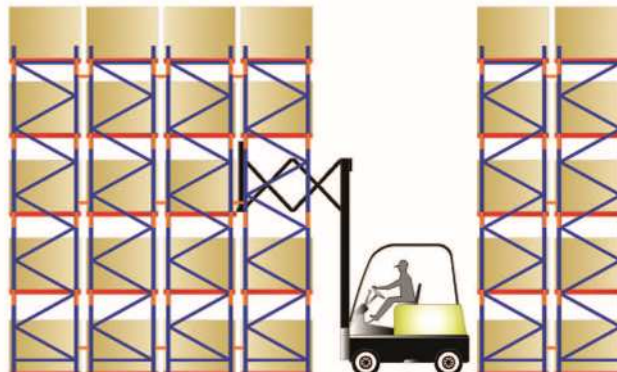
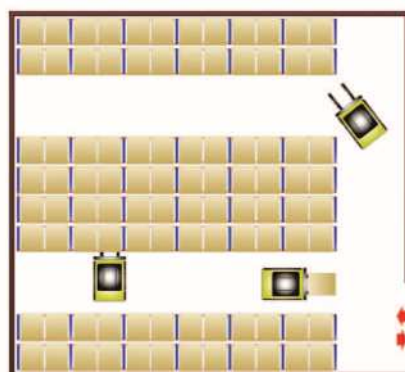


Double Deep Racking stores two pallets deep, or four pallets deep in a double entry rack. Double entry racks reduce the aisle to rack ratio but also reduces pallet selectivity, increasing storage density.

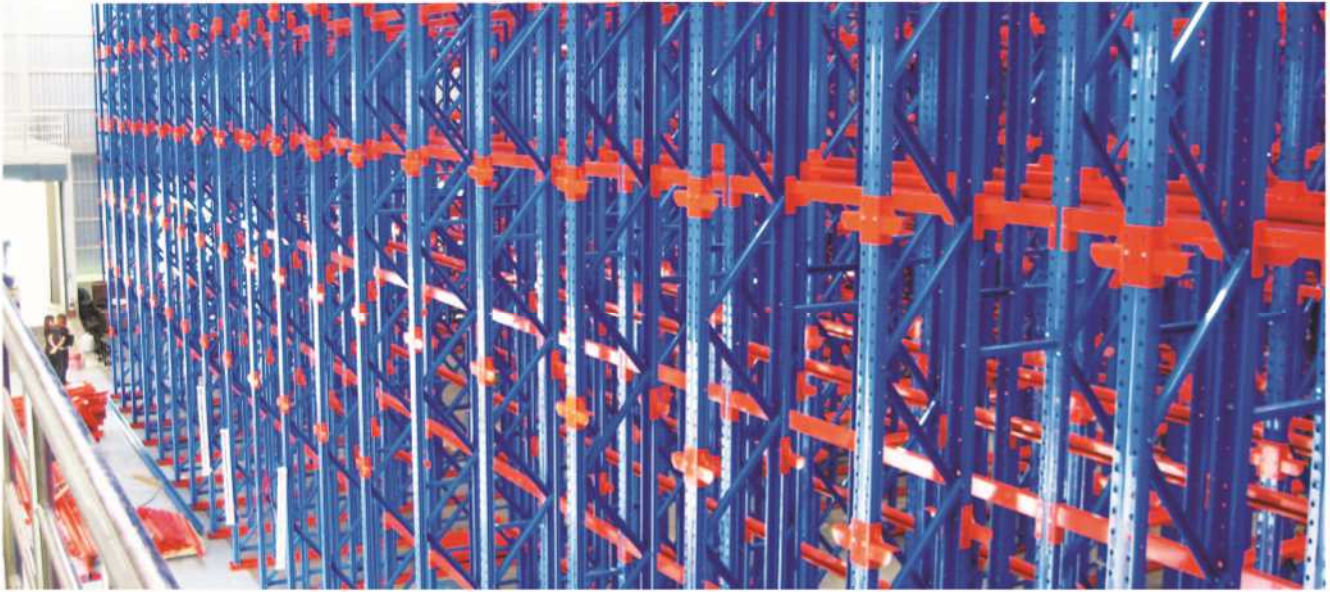
50% immediate pallet access provides reasonable stock rotation on a FILO (Firs-In, Last-Out) basis and makes good use of all available locations. This system is best used when each Stock Keeping Unit (SKU) has several pallets..

The system requires the use of a special forklift with either dual telescopic or slide fork attachments. Truck lift heights are limited by load to about 9 metres.

Upper levels can be fitted with guide rails to assist forklift drivers in locating pallets, Also they help reduce fork truck operator error and accidental impact damage.



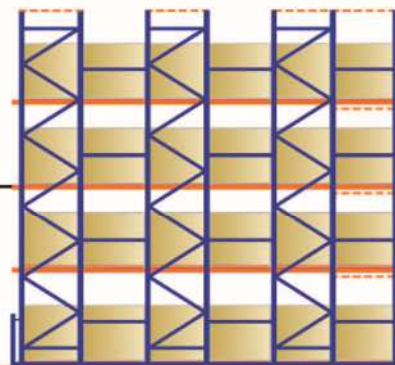
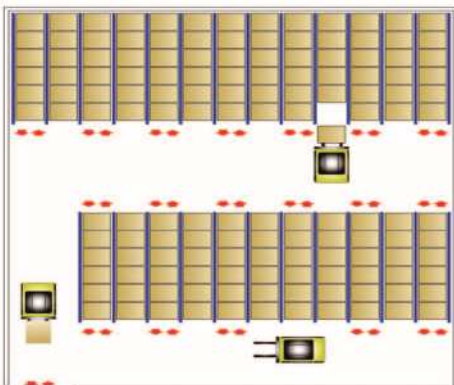
::: DRIVE-IN RACKING SYSTEM



Drive-In Racking or Drive-Thru Racking are terms often used interchangeably. In some environments it can be difficult to differentiate between the two. Typically, Drive-In Racking requires operators to drive into the racking system from one side and remove pallets from the same entry point using FILO (First-in, Last-Out) inventory management. Some Drive-In pallet rack systems have a wall or are otherwise closed at the opposite end. A simple way to identify a Drive-In system is its FILO inventory management. Product is rotated in a First-In, Last-Out inventory manner because of the single entry/exit point.

The draw to a Drive-In rack is its extremely efficient storage concentration. Pallets are stored back-to-back without aisles for exceptionally dense storage. This style system is an excellent solution for product that is not time or date sensitive, or for fast moving pallets that are rotated frequently.

THAIINTERMAT offers many variations of Drive-in/Drive-thru racking with structural or roll formed products. The Spacesaver, tapered arm allows pallets to slide easily into the bay. It has a tapered edge at the front entry point.



MOBILE RACKING SYSTEM :::



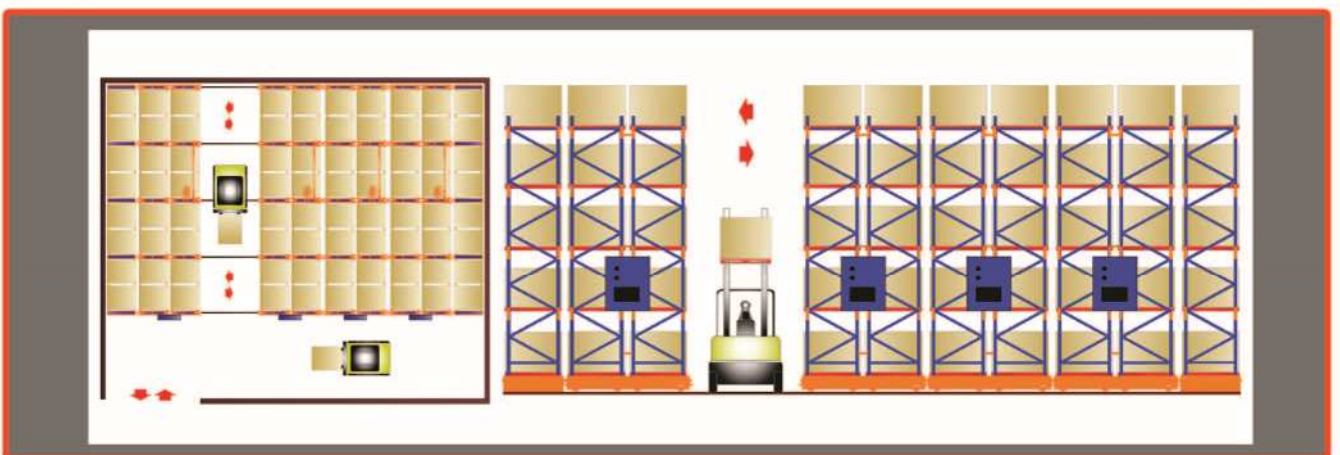
Mobile Racks give maximum utilization of the warehouse space whilst allowing 100% access to the pallets.

The superstructure is fixed onto electrically powered mobile bases, which move on rails embedded in the floor. The system allows the operator to open the aisle required with a single command.

This solution allows usage of up to 95% of the warehouse space and is increasingly relevant in the drive for lower warehouse cost.

It can be used to store many types of palletized unit loads, boxes, drums, sacks etc. Alternatively rack beams can be decked out to form shelving for high density archive storage.

Features such as remote or computer control make mobile racking virtual conventional racking for the forklift driver.



::: LIVE PALLET RACKING SYSTEM

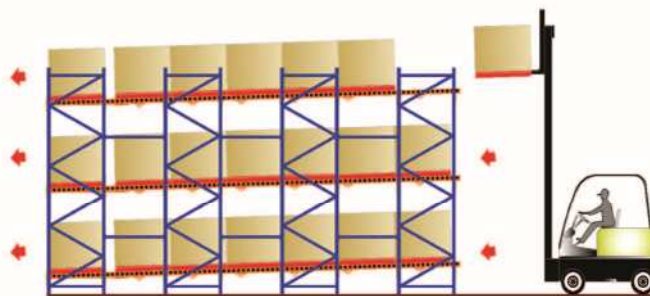
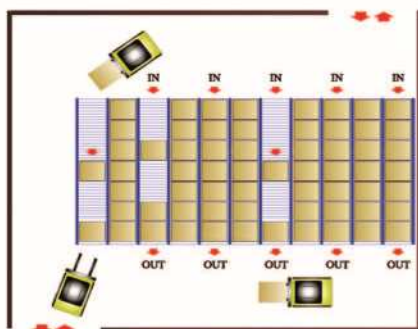


INTERMAT has more than 20 years of experience in providing Pallet Live Systems for the storage of pallets, guaranteeing the FIFO (First-In, First-Out) principle. With our experience of Conveyor System Manufacturer, we can offer free advice and planning to ensure that the system is right for you.

Our system incorporates a full width roller bed, with brakes at every pallet position to ensure that the pallets move down the system at a steady, safe rate. The brakes have the widest operating weight range on the market, so different weight pallets can be used in the same system without the need for adjustment.

We also provide the racking, tailor-made to suit the gradient, incorporating specially designed beams and frames to take the extra weight these systems impose.

The applications are varied, but Pallet Live can be used in the following ways: Pallet Live is often used in Warehousing and Distribution to store batches of the same product, (without the handling difficulties of Drive-In racking) In the food and beverage markets, the FIFO operation is particularly important.



MEZZANINE FLOOR :::



Mezzanine Floor or Platform is a special area constructed to enable the full working height of a building to be utilized to its maximum by doubling or tripling the surface areas. THAIINTERMAT Co. Ltd. designs customized systems based on individual needs to satisfy its customers' and provide the most efficient warehouse workspace. Mezzanine Floors can be used as storage areas, fabrication areas, packing areas and offices among the many other uses.

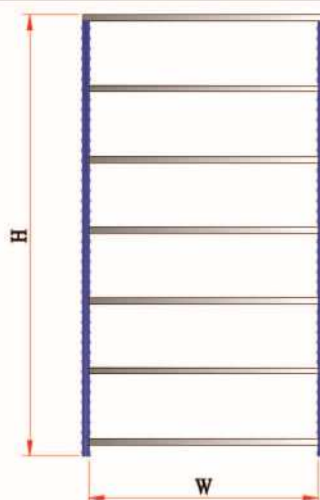


::: SHELVING SYSTEM



We produce a wide range of Light-Duty Shelving to fit different needs. You will find various options here, here.

As a specialized designer and manufacturer of logistics systems, we provide Medium Shelving, Drawer Shelving, Mezzanine Shelving, Wire Decking, Wire Mesh Fence, Lighting Systems etc.



SHELF WIDTH (mm.)	SHELF DEPTH (mm.)	LOAD PER (LEVEL) (Kg)	HEIGHT
1000/1200	300	100	2000/2400
1000/1200	400	100	2000/2400
1000/1200	500	100	2000/2400
1000/1200	600	100	2000/2400
1000/1200	300	200	2000/2400
1000/1200	400	200	2000/2400
1000/1200	500	200	2000/2400
1000/1200	600	200	2000/2400

CATILEVER & STEEL FABRICATION :::

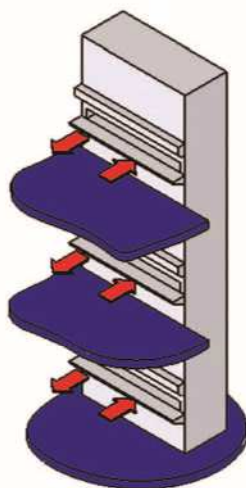
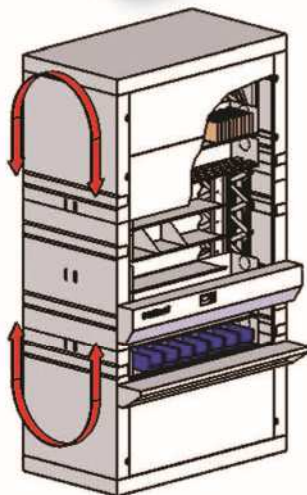


::: CAROUSELS

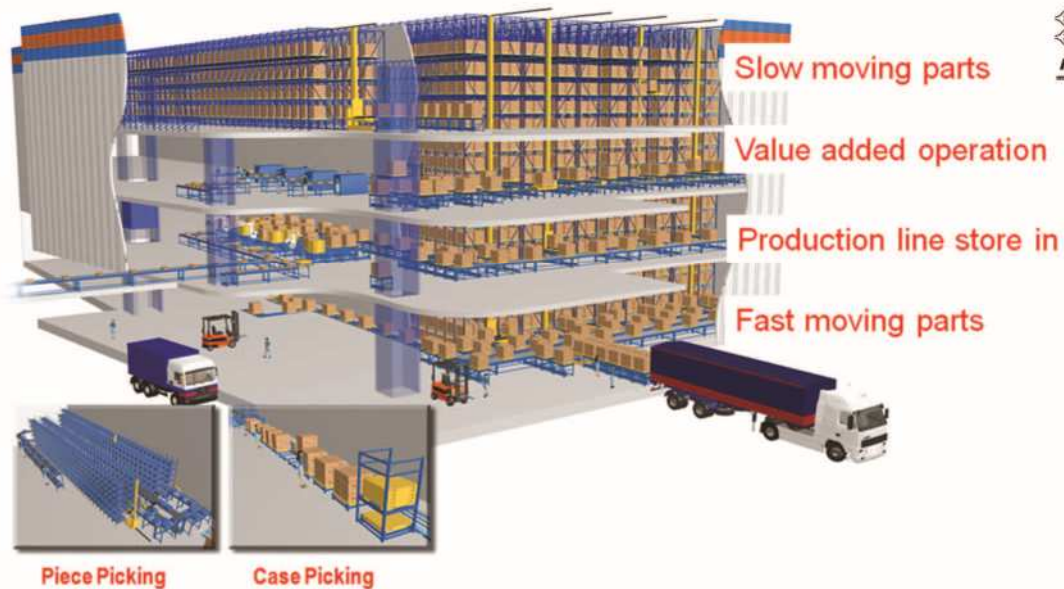


Vertical Storage System that maximize space, efficiency and productivity

- Materials are delivered directly to operator, minimizing walking, climbing, bending or reaching for heavy objects.
- Pass-through design eliminates time-consuming transport of items from floor to floor
- Point-of-use design keeps parts closer to the operation, eliminating trips to cribs or stock rooms
- Dual-access portion for multi-operator to use both fronts on multiple floors

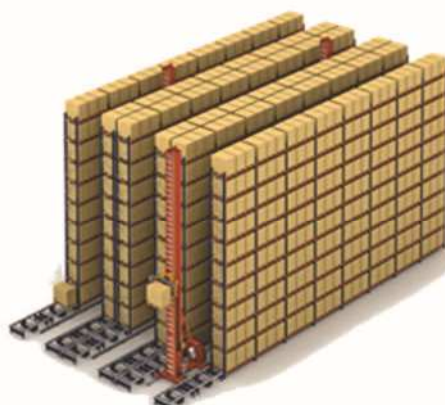


AS/RS & RACK SUPPORT BUILDING:::



ASRS (Automated Storage / Retrieval System) is a system for placing and retrieving loads from selected storage locations in a warehouse.

AS/RS are typically used in applications where: there is a very high volume of loads being moved. It can be used with standard loads as well as nonstandard loads which move both vertically and horizontally.



GALLERY :::



::: GALLERY



MATERIAL HANDLING INTEGRATION

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Racking Systems

Conveyor Systems

- CONVEYOR SYSTEMS
- STORAGE SYSTEMS
- SPECIAL MACHINE
- STEEL FABRICATION
- PREVENTIVE MAINTENANCE

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