



COMPLETE SOLUTION - HIGH RACK WAREHOUSES

From ideas to execution ...

Driven by the desire to see the manufacturing processes constantly developed and improved, Trimo has created a complete solution in the field of logistics and warehousing.

Trimo High rack warehouses are the latest development in the field of product storage, materials input and output and as a holding place for semi-finished products. It is based on the desire to minimise storage space and maximise supply management.

Complete solution in the field of warehouse and logistic-transport systems.

The complete solution (high rack warehouse) package offers:

- Assessment of current processes and operations
- Consultation and the undertaking of project studies
- Study evaluation and selection
- Study implementation
- User education and training
- Maintenance and servicing



Benefits of high rack warehouses

High rack warehouses are designed using the latest advances in technology, saving energy as well as being environmentally friendly. We are also able to offer equipment servicing, including that of our partners.

Our innovative approach and years of experience are your guarantee we will meet your every warehousing and logistics need.

Minimising warehousing costs

Is warehousing costing you money? Do you lack ideas about how to reduce costs? Trimo's high rack warehouses are guaranteed to optimise and reduce all key supply costs.

Optimising processes

Are you losing time transporting the material from your manufacturing plant to your warehouses? Trimo's high rack warehouse can be integrated into the manufacturing process and become part of the input and output material flow in the manufacturing process.

Using space efficiently

Thinking of increasing storage space capabilities, but lack space? Trimo high rack warehouses offer the optimal use of space.

Complete supply control

Having problems controlling your supplies? Do you lack a proper storage system? Trimo high rack warehouses and accompanying software package provide complete and reliable supply control.



Complete solution to suit you needs

High rack warehouses meet completely the highest standards. Infinite possibilities allow architects to design and create various solutions.

High quality materials reduce building time.

The wide variety of colours available allows each project to be adapted to create different colour perceptions. With their new modern form high rack warehouses improve the quality of our living environment.

Trimo has solutions prepared for all sectors of industry: food, pharmaceutical, wood and paper industry ...

High rack object

Made from a steel rack construction, roof and façade, it ensures the protection of inner parts from external factors and contributes to the aesthetics of the object.

Rack construction

Is the base element of high rack warehouses. It plays a double role; the primary role is storing packages in the rack system, whilst secondary the rack construction ensures the stability of the building and transfers the weight to the shielded-concrete foundations.

Benefits of steel:

- The flexibility of solutions
- Quick building of different objects
- Easy expansion capabilities
- Long life expectancy
- Environmentally friendly materials



The façade

The façade of the high-rack warehouse consists of panels characterised by flawless forms, hand - chosen materials offering excellent technical properties (fireproof, sound and heat insulated, of excellent support ability and hygienically uncontaminated). Trimo fireproof façade panels are distinguished by the solutions based on unique modern architectural concepts.

The roof

The flat roof system has been especially designed for Trimo high rack warehouses. It ensures smaller roof inclinations and consequently better use of space. The quick installation of the flat roof system means saving time and money.

All data on metal constructions, roofs, facades is available in specialised catalogues. For help or any further information contact your local representative.

The transport system

Providing optimum solutions when searching for a suitable warehouse system requires flexibility in construction of everything from simple rack systems (forklift) to state-of-the-art, fully automated versions (with rack lifts).

A transport system within high-rack warehouses delivers pallets, containing goods, to a point in front of a rack, . From here they are then transported by rack-lifts, from the front of the rack , which can then handle them in various ways (redirects, turns, checks their mass and outside measurements, etc).

Qualities of the transport system (manipulative)

- Automatic identification
- Weight control of the transport-warehousing unit (pallet)
- Transport from racks to appropriate places
- Automatic procedure

Transport equipment (lifting)

- Roller, chain and track conveyors
- Ground and hanging transporters
- Trolleys
- Articulated lifts
- Pallet storage racks



Lifts (track system)

Rack lifts control pallet movements between racks. They operate automatically or can be manually controlled by workers. They are adapted to fit different pallet shapes and weights. They move along tracks in the halls and are guided by guide rails in the upper areas.

Purpose manipulators

- Rack lifts
 - straight line shelf-storage lifts, height up to 40m
 - curved line shelf-storage lifts, height up to 20 m
 - purpose solutions
- Re-loaders
- Feeding units
- Robots

Universal manipulators

- Forklifts
- Portal cranes
- Tower cranes

Equipment programme for high rack warehouses

With the latest WMS (warehouse management system) for control and management it is easy to keep track of the flow of material being transported on pallets. This way you can ensure complete control over the material using a unique code, which tells you the exact position of the material in the warehouse.

WMS is intended to control complex operations in a warehouse or a distribution centre and includes:

- Warehouse configuration*
- Communication with the business system (ERP etc. SAP)
- Managing the takeover of material
- Forming a transport-warehousing unit
- Managing all internal movements of material in a warehouse
- Commissioning using RF terminals (infrared) and other subsystems (RFID, Pick to light, etc.)
- Constant generation and output on the dispatch data
- Constant update on all the operations within the system

*In the optimization process we address every request individually. The most common requests about optimization concern occupancy of the warehouse, truck loading process optimization, etc.



Additional Solutions

Additional, customer-tailored solutions ...

Trimo EcoSolar PV

To make better use of roof surfaces, we can construct a turn-key solar power plant on the roof of your building. The electricity produced by your solar power plant may also be sold to the electricity power network according to local conditions of sale, or used for your own purposes.

Oxy Reduct System

State-of-the-art technology that ensures increased fire-hazard safety. It is based on the technology of reducing the oxygen content, in an internal environment, by using special kinds of seals between panel joints, and a special chamber to introduce nitrogen into the internal atmosphere of high-rack warehouses.



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