

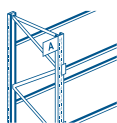


Warehouse Development **eXperts**

Storage and transport systems



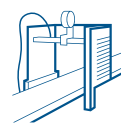
Logistic
projects



Warehouse
racks



Conveyor
transport



Warehouse
equipment

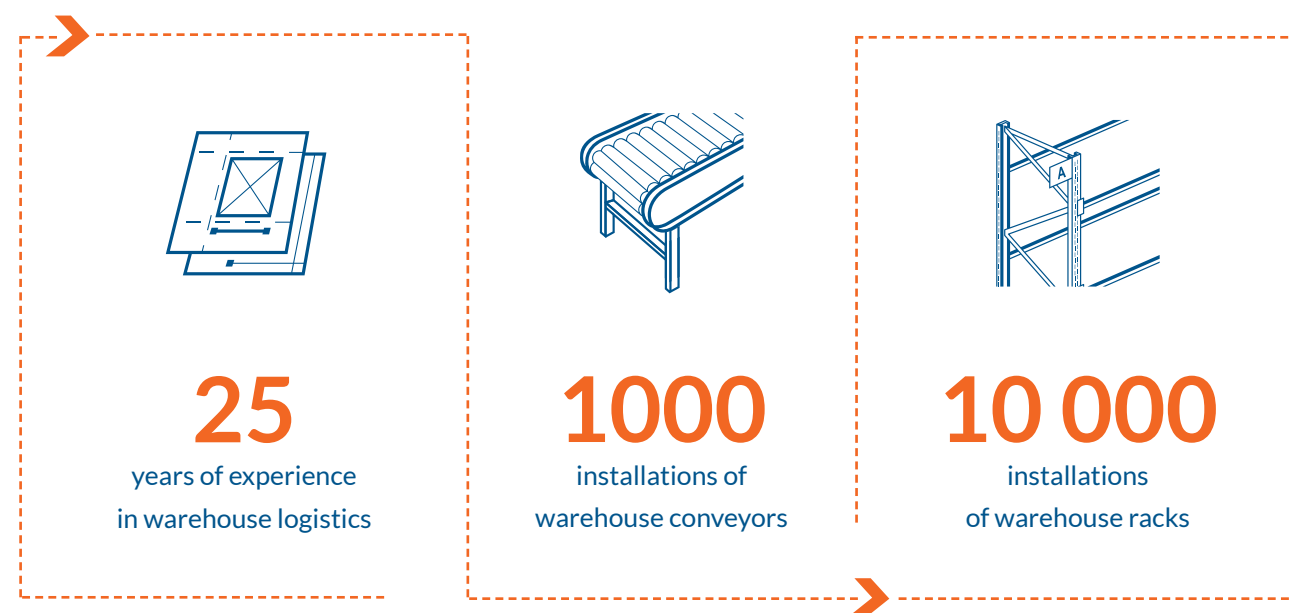


Warehouse
automation



Warehouse Development eXperts

WDX S.A. is a provider of warehouse logistics solutions - from concept to implementation. We are a manufacturer of racks, automation systems and warehouse conveyors. We design solutions aimed at full integration of logistics and supply chain.



They trust us:



Logistic projects



A comprehensive approach to the investment process from the point of view of a logistics project prior to construction or modernization of a warehouse allows minimization of time and money spent on the project.

Our product portfolio includes logistic consulting. We support companies at every stage of investment.

> Verification of input data

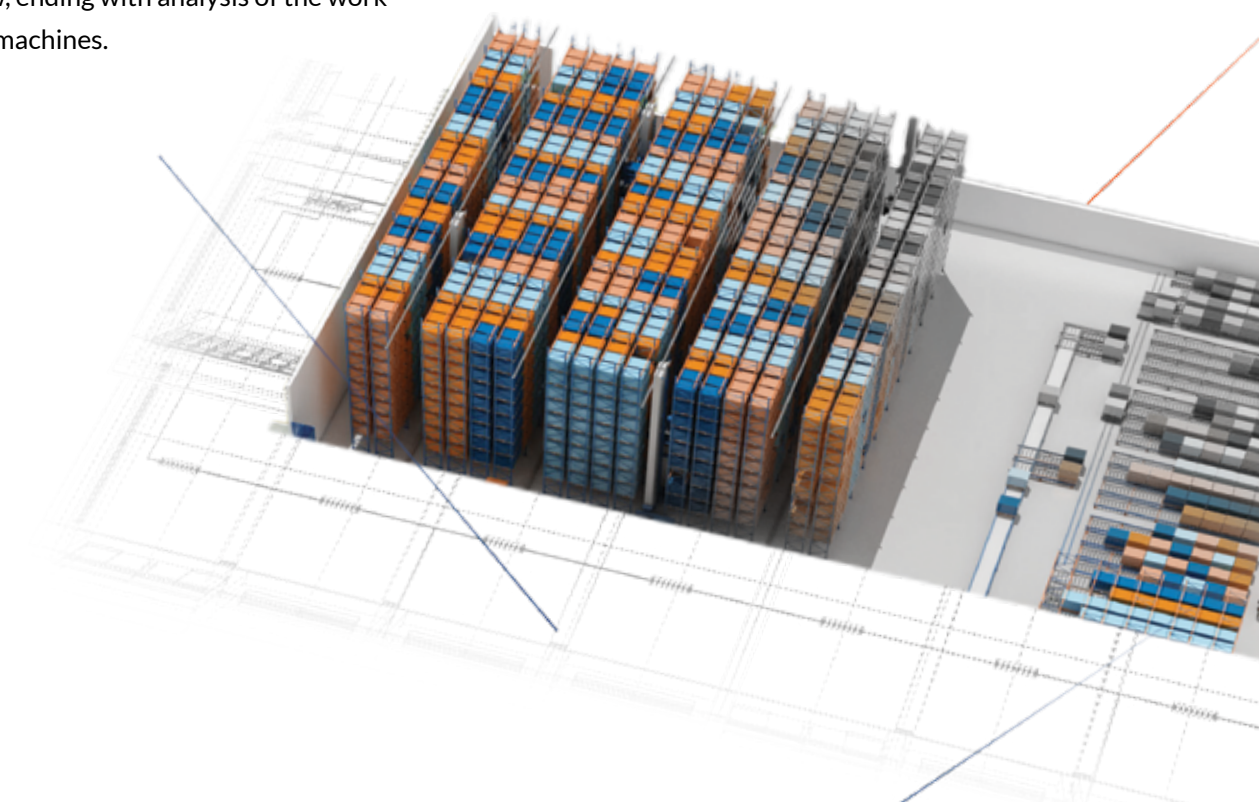
Determination of the basic goal of the project, as well as conditional goals and limitations.

> Selection of warehouse equipment

Selecting appropriate warehouse equipment and preparing its technical specification, i.e. the so-called arrangement design.

> Analysis of performance and goods stored

Starting from analysis of properties of stored products, through analysis of safety level and goods flow, ending with analysis of the work of people and machines.



Line pallet racks

X-PR LINE

The most popular and versatile warehouse system.
Allows storage of goods with varied size and weight.



Basic features

- Storage in single or double rack lines - **immediate access to each pallet.**
- Possibility of storing on **any storage units**, from euro pallets, through metal containers, to non-standard packaging.
- The coefficient of warehouse space utilization **up to 40%.**
- The **modular design** allows for the configuration of the system depending on the specific warehouse process.

- Each pallet space can be assigned a separate index - **easy inventory control.**



Exemplary modifications

WDX S.A. warehouse racks are manufactured in Poland. We offer a rich package of modifications and non-standard solutions.

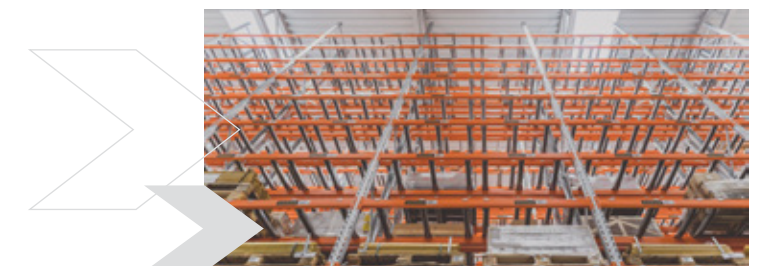
➤ 01

Shelf levels for **manual picking** in the aisle.



➤ 02

Heavy duty design and reinforcements, up to **22 tons** per bay.



➤ 03

Differentiated fillings and separators adapted to the stored goods.



Drive-In racks

X-PR DRIVE-IN

A solution to achieve a high coefficient of warehouse capacity utilization. The Drive-In system consists of racks forming pallet tunnels and levels equipped with load-bearing rails.



Basic features

- Coefficient of warehouse space utilization up to 85% - minimum number of aisles.
- A very economical way to store large quantities of goods in a block system.
- A perfect solution for storing large quantities of homogeneous goods.
- Possibility of warehouse logistics management according to the LIFO principle.



Elements of the Drive-In system

When designing warehouse solutions based on the Drive-In system, we pay special attention to ensuring safety and quality of processes.

➤ 01

Rail guidance - prevents damage to the rack column inside the tunnel.



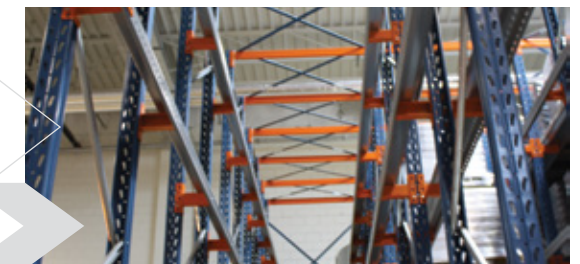
➤ 02

Rail runway - makes it easier to bring a pallet onto the rack rail.



➤ 03

Horizontal and vertical bracings - stiffen the structure and improve safety.



Shuttle pallet racks

X-PR SHUTTLE

A semi-automatic dense storage system, in which a radio-controlled shuttle platform is used to handle pallets in racks. The platform moves along the rack structure, based on drive-in pallet racks.

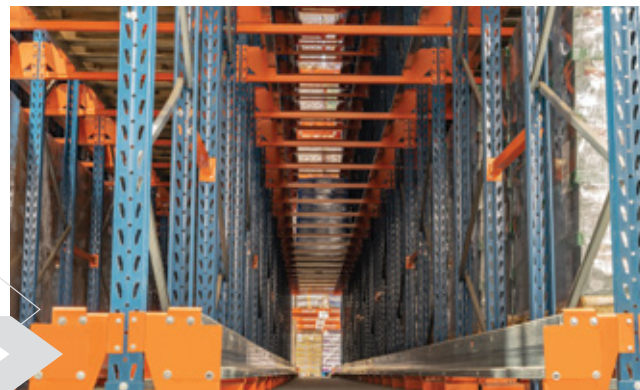


Basic features

- **Block pallet storage system** - especially dedicated to production warehouses with high rotation and to cold stores and freezers.
- **High productivity - reduction of labor costs.**
- **Employee and goods safety** - minimization of the risk of accidents.
- **High utilization rate warehouse space - reduction of storage costs of a single pallet.**
- **Low investment cost** compared to solutions with similar productivity.



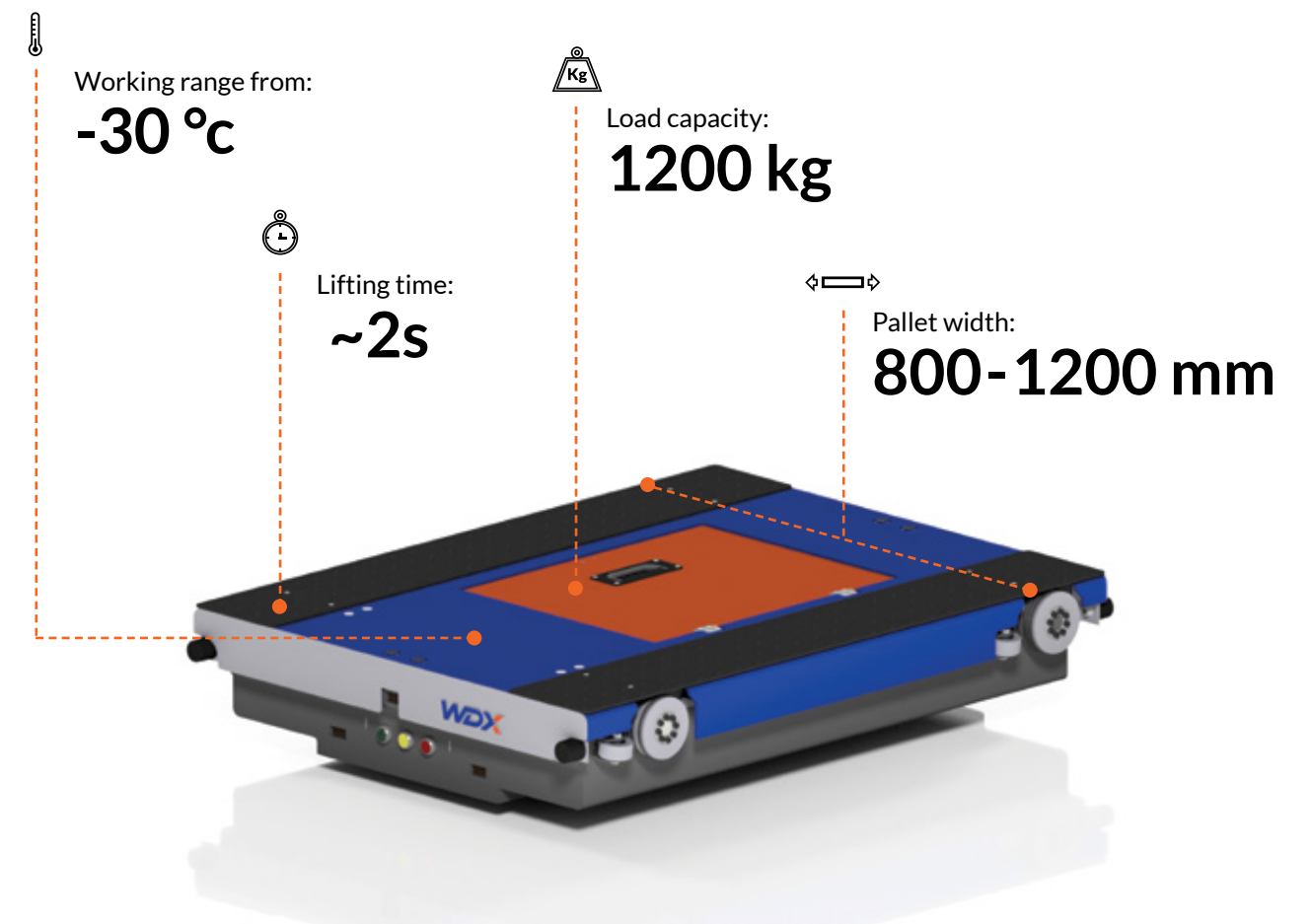
The platform moves on rails which are both a guide for the truck and a load-bearing element for storage of pallets.



The length of the tunnel is adjusted to the individual warehouse process.

WDX Q-Shuttle platform parameters

The shuttle platform designed and manufactured by WDX S.A. can be adapted to individual warehouse processes.



Mobile racks

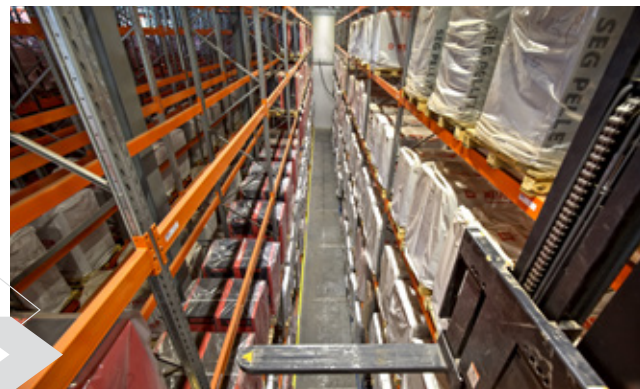
X-PR MOBILE

A warehouse system dedicated to storage of pallets at high density. X-PR Mobile racks consist of line pallet racks mounted on electrically powered mobile platforms.



Basic features

- Immediate access to every pallet.
- Reducing aisles to a minimum - space utilization coefficient up to 80%.
- Excellent solutions in cold stores or freezers.
- A flexible system - storage of whole pallets in racks or manual picking in the aisle.



Mobile racks are a perfect solution wherever warehouse space constitutes a significant cost of the entire investment, e.g. in a cold store or freezer.

➤ 01

Mobile racks guarantee a high utilization rate of warehouse space - up to 80% - with access to each pallet unit.



➤ 02

The system is controlled by a remote control - an additional option is the ability to control it via WMS. In order to improve the safety level, it is possible to control the system manually by means of a button on the control panel.



Flow racks

X-PR FLOW

Designed for storing goods on pallets, sorted by type and expiry date. The design of flow racks is based on a system of roller beds built into a standard rack structure.



Basic features

- Precise control of the FIFO system (first in, first out).
- Save time by shortening the transport cycles of forklift trucks.
- Coefficient of warehouse space utilization over 80%. – minimization of the risk of accidents.



Cantilever racks

X-Cantilever

Designed for storage of logs and oversize goods packed in packages or stored in bulk.

Basic features

- The design of the rack allows designing a layout adjusted to individual needs.
- Possibility of storage of varied-length goods on one or both sides of a rack.
- Immediate access to each storage unit.



Midi shelf racks

X-S MID

A warehouse system especially dedicated to storage and picking of loads with low or average weight - up to 320 kg per shelf.



Basic features

- The large number of column and shelf dimension variants allows adjusting the system to specific requirements and ensures cost-effectiveness.
- Shelf racks are easy to assemble and move.
- A special column perforation system with a profiled shelf buckle stiffens the whole structure and increases its safety.

- A universal system that can be used in various applications - from less demanding to multi-level structures.



Production of shelf racks

We can produce elements of virtually any size.

➤ 01

Separators divide the shelf space vertically, creating mixed storage zones.



➤ 02

Rear and side mesh panels prevent damage to goods and protect against unauthorized access.



Maxi shelf racks

X-S MAX

A system of shelf and pallet racks dedicated to carry medium loads. X-S Max racks equipped with shelves can be used to store cartons, containers or bulk materials.



Basic features

- Applicable in different types of warehouses - a wide range of accessories and a strong and durable structure.
- Possibility to built platforms or decks – elements such as stairs, handrails, gates, etc. are available.
- Possibility to adjust the height of levels according to the specificity of the logistic process and stored loads.

Flexible structure

X-S Max racking system is designed for installation of different filling types in the same bay at the same time.



Metal shelves - made of galvanized sheet metal, allow easy cleaning and carrying of heavy loads.



Mesh shelves - dedicated especially for applications where it is necessary to meet safety standards.

Flow shelf racks

The system is designed for storing fast-moving groupage goods in containers or cartons, according to the FIFO principle. It is particularly useful during dynamic picking of groupage goods of medium assortment diversity.

> 01

The system guarantees immediate access to the stored goods, where one storage unit is available in each channel.



> 02

The system can cooperate with a set of conveyors whose line runs along the row of a roller rack.



Multi-storey structure

X-MULTI STOREY

Warehouse platforms constitute a solution for goods storage at several levels and for creating additional, separated packing zones in warehouse.

Basic features

- **Optimization of warehouse space management** - increasing the coefficient of capacity utilization and obtaining additional operating space.
- **Possibility to configure the platform with other warehouse systems**, including conveyor lines.
- **Possibility of configuration for individual warehouse process** - wide range of accessories.

Multi-storey structures can be designed based on a system of X-S Max shelf racks, X-PR pallet racks or on steel profiles.



A multi-storey structure designed on steel profiles.



Multi-storey structure designed on the basis of X-PR pallet racks.



Multi-storey structure designed on the basis of X-S Max shelf racks.

WDX exemplary solutions

We approach each warehouse process individually, designing and implementing dedicated solutions:



- The use of flow racks to optimize the depalletization process.



- The use of a roll transport spiral to optimize the picking process.



- A suspended system for transporting clothes between floors.



- A dedicated tire storage zone.

Q Loader

The Q Loader Automatic Loading System is intended to minimize the loading and unloading time of semi-trailers or offshore containers. The Q Loader system is an innovative solution offered by WDX S.A. allowing for shortening and optimization of warehouse and loading processes.



Features of the Q Loader System:



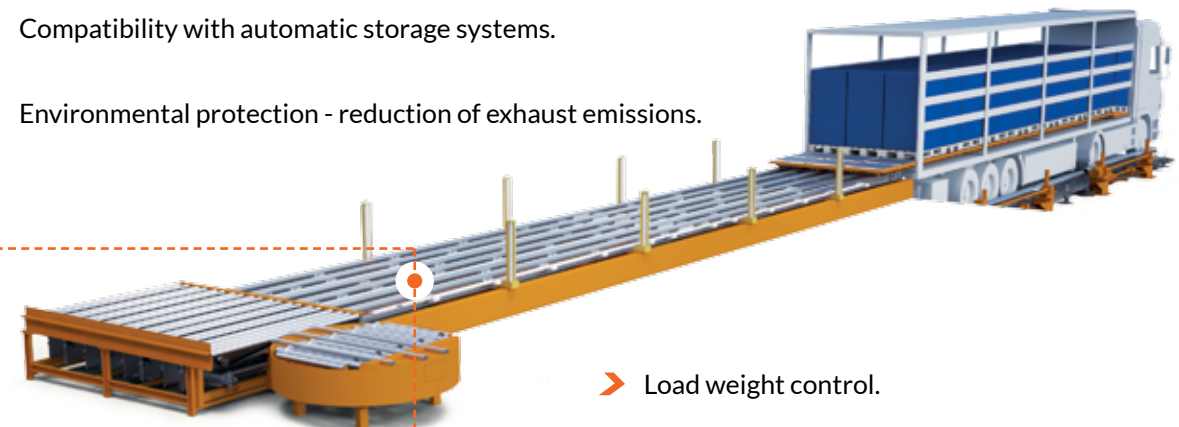
> 01

- > Savings in semi-trailer loading time - 33 Euro-pallets - savings of approx. 45 min - 60 min on loading.
- > Possibility of loading pallets in any system.
- > No need to rebuild halls or docks.
- > No need to adjust semi-trailers.



> 03

- > Reducing the need for employees.
- > Saving warehouse space.
- > Cost savings due to maintaining the proper temperature in the hall - freezers, heating.
- > Compatibility with automatic storage systems.
- > Environmental protection - reduction of exhaust emissions.



> 02

- > Load weight control.
- > Increased product rotation.
- > Reducing the risk of an accident.
- > Limiting the movement of forklift trucks.
- > Reduction of the risk of goods damaging.
- > Load monitoring with load control printout.

See how Q Loader works: q-loader.com

Pallet conveyor systems

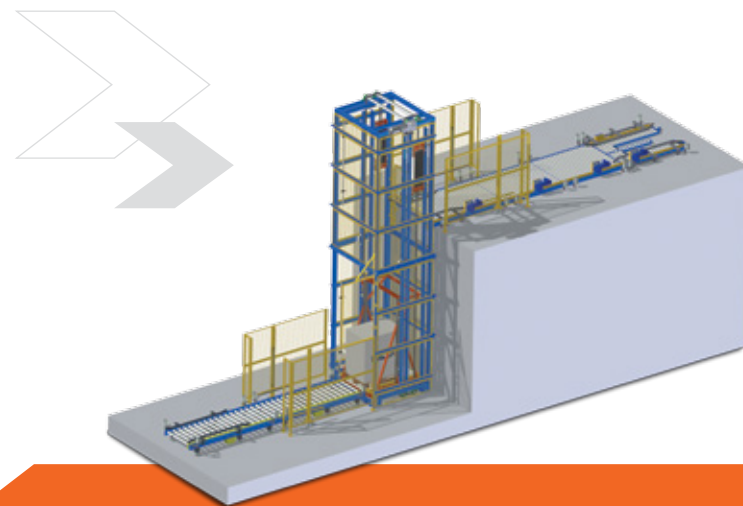
WDX is a provider of comprehensive, automated warehouse solutions. Our transport lines ensure the movement of goods in warehouses and between the warehouses and other elements of the logistics structure of the company.



Complete transport lines

- **We create from scratch or modernize** existing internal transport systems - we are a manufacturer of conveyors for the transport of heavy loads placed on pallets and light loads placed in boxes or in bulk on a transport belt.
- **We connect production, storage and forwarding zones** - transport lines can be equipped with identification systems based on barcode or RFID technology.

- **Wide range of solutions** - we have the necessary experience and recommendations, we design and implement various layouts dedicated to a specific warehouse process.



Automatic transport of pallets on flyovers or between floors

A pallet transport system used to ensure cyclical overcoming of level differences while ensuring a safe and efficient flow of goods, e.g. between warehouse buildings or between warehouse and production department.



Examples of WDX solutions

The pallet transport line can be integrated into the system's supplementary equipment.



- Thanks to their mobility, **transfer trolleys** connect conveyor lines with each other, providing a transport platform from line to line.



- **Angular transmissions** are used to change the direction of pallet movement from transverse to longitudinal.



- **Turntable** is used to change the direction of pallet movement while turning the pallet by the same angle.



- **Column lift** - used for simultaneous change of direction and level of transport.

Conveyor systems for containers

Automated transport lines for containers and parcels are built in our production plant. The conveyors are adapted to be installed in racks and to cooperate with devices for warehouse operations.

Complete transport lines

- **Systems built from roller conveyors** are used on sections of lines for horizontal transport, picking and buffering of containers or other unit loads - **we offer driven and gravitational lines.**
- **Belt conveyors** are widely used in moving unit loads on production lines. In inter-operational transport and warehouse transport - used in particular **where level differences occur.**
- Warehouse transport infrastructure designed by us is **integrated with IT systems** for warehouse flow of goods and storage.

Necessary knowledge and experience

The individual WDX solutions can be configured into complex storage systems tailored to individual logistic processes.



Container transport system in multi-storey design - belt conveyors.



Connection of the conveyor line with the X-S Max shelf rack system.

WDX exemplary solutions

The lines for transporting containers and parcels can be integrated with devices supplementing the system.



➤ Automatic sorter - belt conveyors.



➤ Automatic weighing system in flow.



➤ Automatic packing system.



➤ Automatic cross strapping machine.



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