

RECEIPT AND STORAGE OF GOODS

STORAGE OF GOODS: Questions and Answers

Storage 1

List the different types of storage used under different storage conditions.

Warm, cold, and freezer storage.

What is the typical temperature of warm storage?

Over +2°C

What is the typical temperature of cold storage?

-8....+2°C

What is the typical temperature of freezer storage?

Freezer storage has a storage temperature of -18°C and a freezing temperature of -25°C to -30°C.

What are warehouse hotels and what do they do?

Warehouse hotels provide warehousing services and lease storage space to companies. They also usually offer value-added services, such as assembly, packaging, and sorting services. The service package often includes the repacking of goods into end customer-specific batches, the preparation of packing lists, package labelling, ensuring cargo readiness, forwarding services, inventory tracking, and customer reporting.

List different storage equipment.

Storage equipment includes small goods racks, pallet racks, pallet flow racks, deep-loading shelves, mobile racks, and cantilever racks, as well as various carousel racks, and automated storage systems.

What kind of layout structures are used in warehouses?

Warehouses mainly use direct flow, U flow, or L flow layout structures.

Where is direct flow layout structure mainly used?

The direct flow layout is mainly used in through-flow warehouses. In this layout, the material flow is one-way, so that the shipping and receiving areas are located on different sides of the warehouse, with a storage area located between them.

Where is U flow layout mainly used?

The U layout is used in conventional warehouses, where picking takes place in a U-shaped semi-circle. In the U flow layout, the shipping and receiving areas are located on the same side of the warehouse.

Where is L flow layout mainly used and what benefits does it have compared to direct flow and U flow layouts?

In the L flow layout, the shipping and receiving areas are located on different sides of the warehouse. The L flow layout requires less warehouse space than the flow-through layout, but more space than the U flow layout.

What does dynamic storage mean?

Dynamic storage means that the products do not have fixed storage locations. The picking system determines the optimal available storage location for each incoming batch.

What are the benefits and disadvantages of dynamic storage?

The advantage of dynamic storage is being able to optimize the storage location of incoming batches, i.e. being able to place a batch of incoming goods in the same location, which makes it easier to pick the entire batch. The disadvantage is that every time a batch arrives at the warehouse it is placed in a different place. Therefore, the picker must carefully check where the goods in question can be found.

What is a buffer stock?

Buffer stock refers to a stock that is used to prepare for, for example, restocking delays or problems with product/raw material supply. Buffer stock is, therefore, a stock which secures operation despite the uncertainty in restocking.

Name the racking solution.



Small goods rack

Name the racking solution.



Pallet rack

Name the racking solution.



Deep-loading rack

Name the racking solution.



Mobile rack

Name the racking solution.



Pushback rack

Name the racking solution.



Pallet flow rack

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List different stacking patterns.

Articles are typically stacked into a column, square, pyramid, stepped, triangular, or lean-to stack.

What are the benefits of using different stacking patterns?

By stacking articles in different patterns, the cargo space can be used as efficiently as possible so that there is no empty space. Different stacking patterns allow the load to be stacked so that it is supported by its own weight and so that it is flat and sturdy.

How should cardboard boxes be stacked?

Boxes should be aligned in an interlocking pattern whenever possible.

How can you stack, for example, 200-litre oil barrels?

Barrels can be stacked sideways or upright, depending on the manufacturer's instructions.

How can you store, for example, 60 metres of six-metre plastic pipes?

Plastic pipes can be stacked in a wooden rack, for example. In this way, the required number of pipes (i.e. ten pipes) can be bundled together and stored in one location.

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What is the purpose of Warehouse management system (WMS)?

The system is used to manage material handling functions in a warehouse, to track inventory transactions and the transfer and storage of materials in a warehouse.

How does Enterprise resource planning (ERP) differ from WMS?

ERP is a broader entity that covers automated functions between different departments of a company. The warehouse management system is often integrated into the ERP system.

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How can you make the stack more stable during the stacking phase?

The stack can be secured, for example, by lashing or using shrink film, nets, wedges, or tarpaulins. You can also place, for example, cardboard sheets between the layers to support the structure.

What is particularly damaging to cardboard boxes? How can the damage be avoided?

Cardboard boxes cannot withstand humidity, as a wet box can break down and collapse. Dehumidifiers can be used to reduce humidity in the cargo compartment.

If 200-litre oil barrels are stacked sideways, how can you prevent them from moving?

If the barrels are stacked sideways, the stack must be secured with wedges or using vertical supports on the sides, for example. The barrels can also be stacked using barrel racks.