

1. PLACEMENT OF CARGO IN A WAREHOUSE

Topic: Workflow and flow of goods in a warehouse

Work sequence in a warehouse

1. Receipt of goods, based on the address!
2. Visual inspection and recording of the condition
3. Unloading
4. Inspection of the goods (quantity, weight, quality, compliance etc.)
5. Placement of cargo at the warehouse: +/-
 - 5.1. 'Chaotic' approach to placement
 - 5.2. Specified location, based on stock number
 - 5.3. Placement by product group
6. Storage:
 - temperature and humidity (hygrometer) measurements,
 - cleaning, sorting, ventilation
 - registration of damage and losses, write-offs
7. Selection and picking as ordered, using the FIFO method



DEFINITION

First in — First out. A system for moving goods used in any warehouse.

Packing, labelling

8. Preparation of supporting documents
9. Loading using the LIFO method



DEFINITION

Last in — First out. This is a method for loading goods in vehicles according to the route of the cargo plan

‘Gudra Noliktava’ (‘Smart Warehouse’) is an Android app integrated with Horizon that makes goods accounting easier, quicker and more accurate

<https://www.visma.lv/gudra-noliktava/>

- Easy to use
- The app can be easily used without additional training. A camera, a keyboard, a Bluetooth barcode scanner or an Android data scanner with an integrated barcode scanner may be used for entering the barcodes.
- Extensive functions
- The app can process various documents for moving goods in a warehouse, in addition to a calculator function. The app can also keep three goods lists at the same time.
- Quick and easy sharing of data
- Data are received and sent via Wi-Fi or mobile network, without needing to connect the device to a computer.

Users can employ any device with the Android operating system.

When should I use the Gudra Noliktava app?

- Accounting for the actual stock at the warehouse during inventory
- Receiving goods from suppliers
- Choosing a product in the shop with the client, which immediately enters the selected product, and speeds up the preparation of the sales invoice
- Production companies keep track of the goods that will be used to manufacture their products
- Preparation of internal statements for moving goods between warehouses

Task 1

A shipment of goods arrives. Imagine that you are in charge of a wholesale warehouse.

- 1) Describe the sequence of actions at the warehouse, if 16 pallets with 8900 kg of different citrus fruits have been delivered.
- 2) What method for placing these goods at the warehouse will you choose? Explain your choices with + and -!

Sorting and products: an e-commerce challenge

In Latvia and the Baltics, the usual approach used by warehouses in 99% of cases is that the operator goes to the product, starts from the beginning, goes through the shelf system, picks up everything needed, and returns to the consolidation point. This takes a lot of time.

Another method, much better suited for e-commerce, is that the product comes to the operator, and the operator spends all their time on consolidation, picking, packaging and labelling the order!

The average capacity of an employee using the first method is 50 to 70 units an hour, not counting the packing of the orders.

But if you organise this system properly and use a zoning approach at the warehouse, you can almost triplicate the capacity.

The main challenge of e-commerce is **time**! The systems must be capable of processing a large quantity of orders. The order selection time is becoming shorter and shorter.

The main problem for companies during the pandemic has been sorting capacity.

Future intelligent logistics solution (4:06)

https://www.youtube.com/watch?v=Elaw716w1_0&t=138s

Differences between yesterday and tomorrow

The **shop** used to be the focus, and it has shifted to the **consumer**.

Note: errors involving the buyer failing to pick up a product from the shelf and the product later being sent back are much more expensive than in a traditional brick-and-mortar shop. This is both about the cost and lost time.

The bigger the warehouse, and the more manual processes and work done by humans there are, the more expensive running it is.