

Innovative stock and picking system for cupboard doors

HTH - Nobia



Fully automatic solution

- for storing and picking of cupboard doors
for kitchens, bathrooms and bedrooms

Purpose of the investment

- Centralised stock
Seven storage areas into one
- Better utilisation of cube (m³)
- More room for extended range
- Geared for future growth



◀ Control system

Univeyor's stock and control system receives orders directly from HTH's production control system.

Simulated picking is made and any out of stock redressed, before order start.



Storage ▶

When a source pallet is stored, it goes through a 'straightener' which centres the sheets.

At the same time the sheets are side shifted slightly, in order to eliminate adhesion for the subsequent robot picking.



▲ Transfer car

The transfer car is fitted with a picking robot and a roller conveyor interfacing with the racking system.



Delivery

- Specially developed robot for picking and order collation
- fitted onto a transfer car
- Complete transport system
- PC based control system
- R.D.T. terminal
- Racking and storing system with 450 pallet locations for cupboard doors

*Aksel Bau Madsen,
Project Manager, HTH:*

"We are very satisfied with this innovative UNIVEYOR solution – actually so satisfied that the other companies in the Nobia group come to see the concept."

Univeyor entered relatively late into the ideas phase but was nevertheless the chosen supplier due to the very interesting solution."



Turnkey system

A forward looking and compact solution ensuring smooth handling and good ergonomics

Briefly about HTH



- HTH is a large scale producer of kitchens, as well as cupboards for bathrooms and bedrooms.
- HTH is part of the Nobia group, Europe's largest manufacturer of kitchens with a turnover of approx. 1 thousand millions Euros and approx. 6000 employees.



◀ Picking concept

The core of the solution is a new picking robot, fitted onto a specially built transfer car.

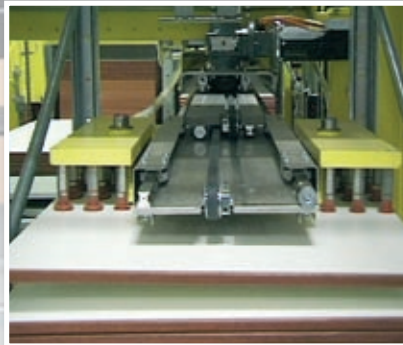
The transfer car runs in the stock aisle. At a given stock position determined by the control system the transfer car stops and the robot picks up the material required.



▶ Picking robot

The gripping device of the robot is fitted onto a telescopic 'head' enabling the sheets to be picked in the various stock positions.

The vacuum cups of the gripper pick items and transfer them to the transfer car, where an order pallet is built.



▲ Dispatch

After picking the finished multi SKU order, the pallet is delivered by the transfer car for collection. A delivery note is issued automatically.

Benefits:

- Compact solution
 - 66% space-saving
- Good ergonomics
- Reduced manual handling
- Picking faults eliminated
- Safe and smooth handling
- A forward looking and compact solution
- Flexible and extendable

Other applications

- The solution is very flexible and can be applied for automatic storage and picking of long, flat materials for large volume manufacturers and distributors.



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