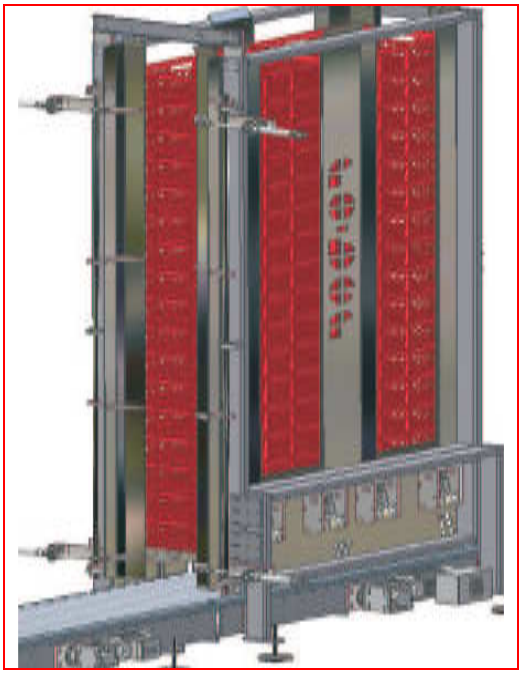
Industrieroboter GmbH

RO-STACK



High capacity
stacking and destacking.

Order picking
Palletising
Depalletising

RO-STACK Technical Data

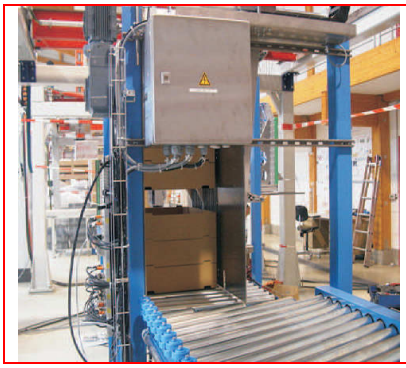
Destacking and stacking
Single grip: 1,000 containers per hour, stacking, 1,200 containers/hour, destacking.
Double grip: 1,600 containers per hour, stacking, 1,800 containers/hour, destacking.
Stack height: 2 -30 containers (adjustable)
Container sizes (Option: automatic width adjustment) from 300 x 200 x 100mm to 800 x 600 x 400mm

RO-STACK Technical Data

Handling capacity up to 100Kg / stack
Container transport direction: along/ across
Electrical connection: approx. 5kVA (3 400V N/PE/50Hz
Compressed air requirement: max. 100Nl/min
Digital potential free signal exchange

RO-STACK Features

Robust and simple construction
Operation as standalone or integrated solution.
Simple integration with standard interfaces.
Highest stacking and destacking capacity.



RO-STACK Features

Operation by touch screen
Particularly low maintenance requirements.
Products requirement wide belt widths can be handled.
To suit speed and requirements of individual applications.

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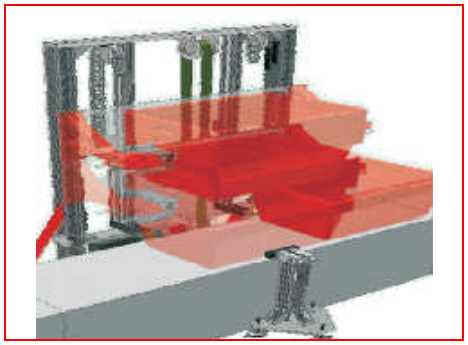

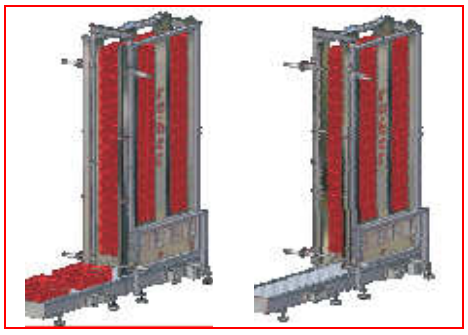

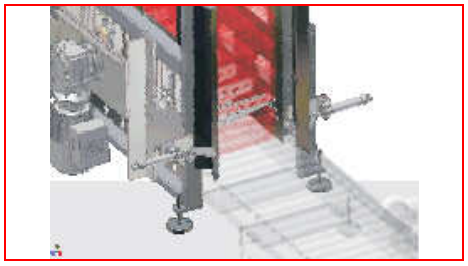

High stacker

A Stacker or destacker is a central component in the raising of capacity capabilities on an automated line. Also it makes possible space saving buffering on a transport system. The RO-STACK high capacity stacker and destacker from RO-BER offers many possibilities.

The stacking and destacking function can also be compactly integrated in to a larger unit

The comprehensive range of transport solutions is especially extensive:

- Plastic containers, totes
- Folding crates
- Cases
- Glued, with hoods or as open trays.
- Drinks cases
- Buckets.
- Metal or plastic with or without handle, with or without lid.

Method of operation

For the stacking function, one has two fundamentally different methods of building the stack.

In the first variant, the goods to be handled are transported in on the conveyor belt (or chains or rollers) and is lifted. In the lifted position, the goods are gripped by a fixed gripper array and the lifting station drops to the receiving position. The next item to arrive is also lifted and the products are nested or stacked.

The process is repeated until the whole stack is built up.

Components

- Frame

The frame consists of a conveyor section build over or in parallel to the main conveyor frame out of solid hollow square beams. The height of the frame is dependant on the height of the conveyor system and the maximum stack height.

- Lift and gripper array.

The design of the lift element is dependent on the count and height of the containers in the incoming/ outgoing stack.

The grippers are pneumatically or electrically controlled and lock into recesses in the container so that it is completely locked in position in the stacker.

- Motor drive unit

The drive of the lifting unit , according to the output required, can either be AC or servo drive. The power is transmitted to the lifting unit by a tooted belt or a gearbox.

- Safety, sensors, process monitoring.

Extensive safety measures such as guarding with interlocked doors to the stacking area, light control for presence and height, inductive sensors for back up protection, end point switch and other features for the smooth operation of the (de-) stacker.

Conveyor and gripper array.

Drive unit with gearbox

Lifting unit set into conveyor

Stacker infeed with light curtain protection.

Operating simplicity

Unique is the operating simplicity of the RO-stack system by means of the touch screen monitor with a local plc. All operating processes are graphically displayed together with the fault conditions: the operation is very intuitive.

In operation with

Johnson & Johnson

KUCHEN MEISTER

SABATIER

emballator

KARSTADT

HUBER VERPACKUNGEN

Harry