

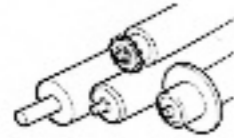
### Movement with system

When you need to transport piece goods easily, trouble-free and cost-effectively, HaRo offers you the perfect solution to your problems. Individually attuned to your special requirements, customized for every application.

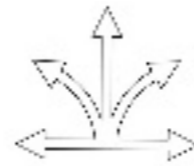
Mobile and stationary, from the bearing roller to the entire turnkey system. Talk to us. We can help you whenever you would like to move something.

## Entire range

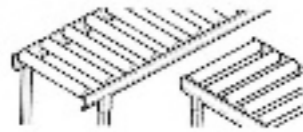
- **Bearing rollers**



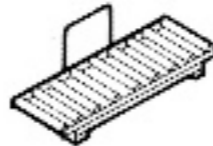
- **Change-direction systems**



- **Roller conveyors with / without drive**



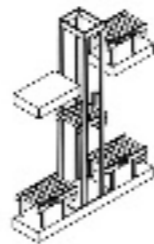
- **Mobile conveyor systems**



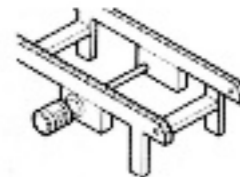
- **Conveyor belts**



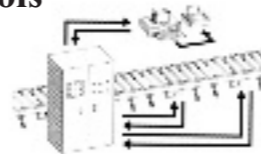
- **Vertical conveyors**



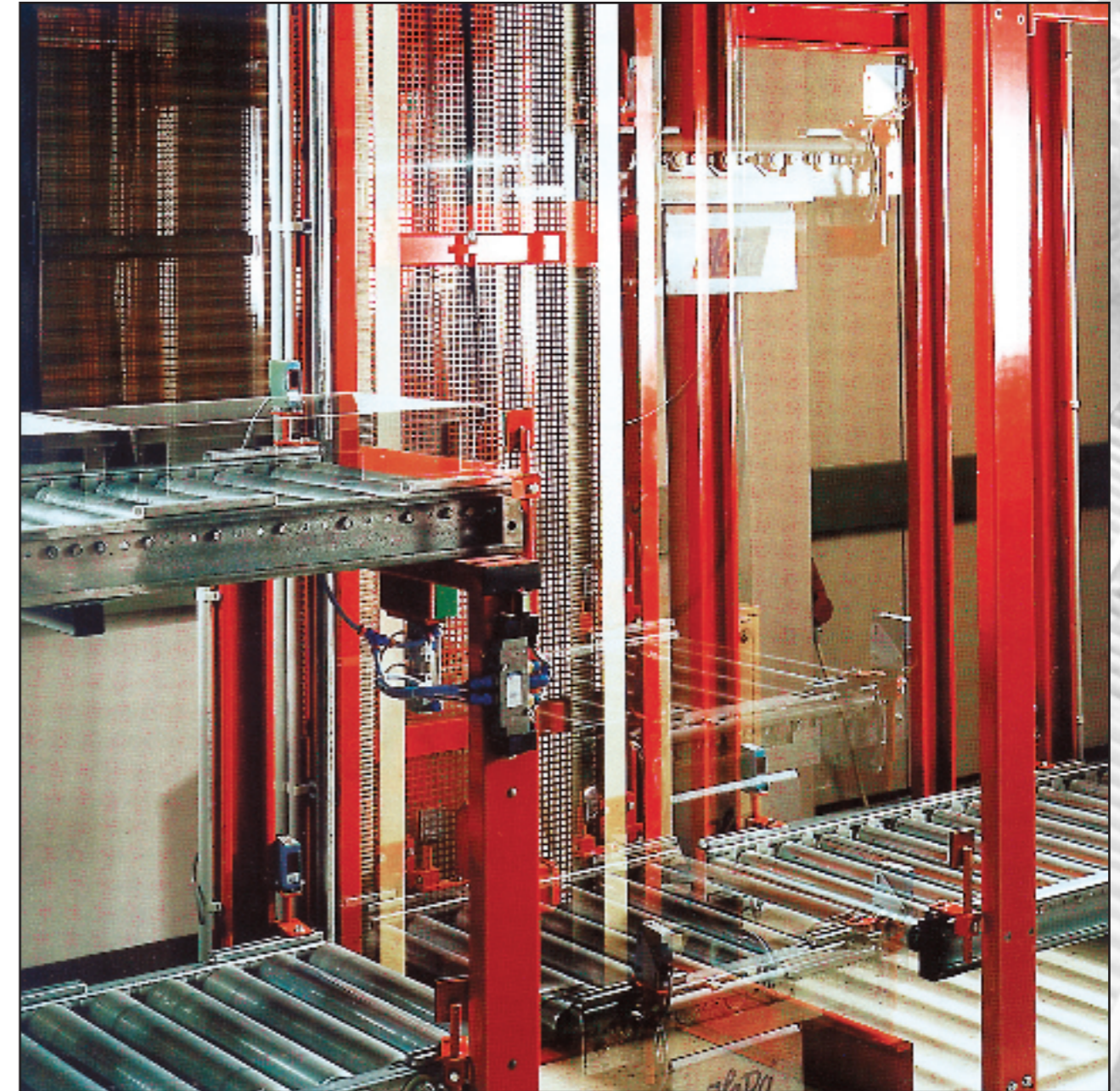
- **Chain conveyors**



- **Controls**



- **Turnkey systems**



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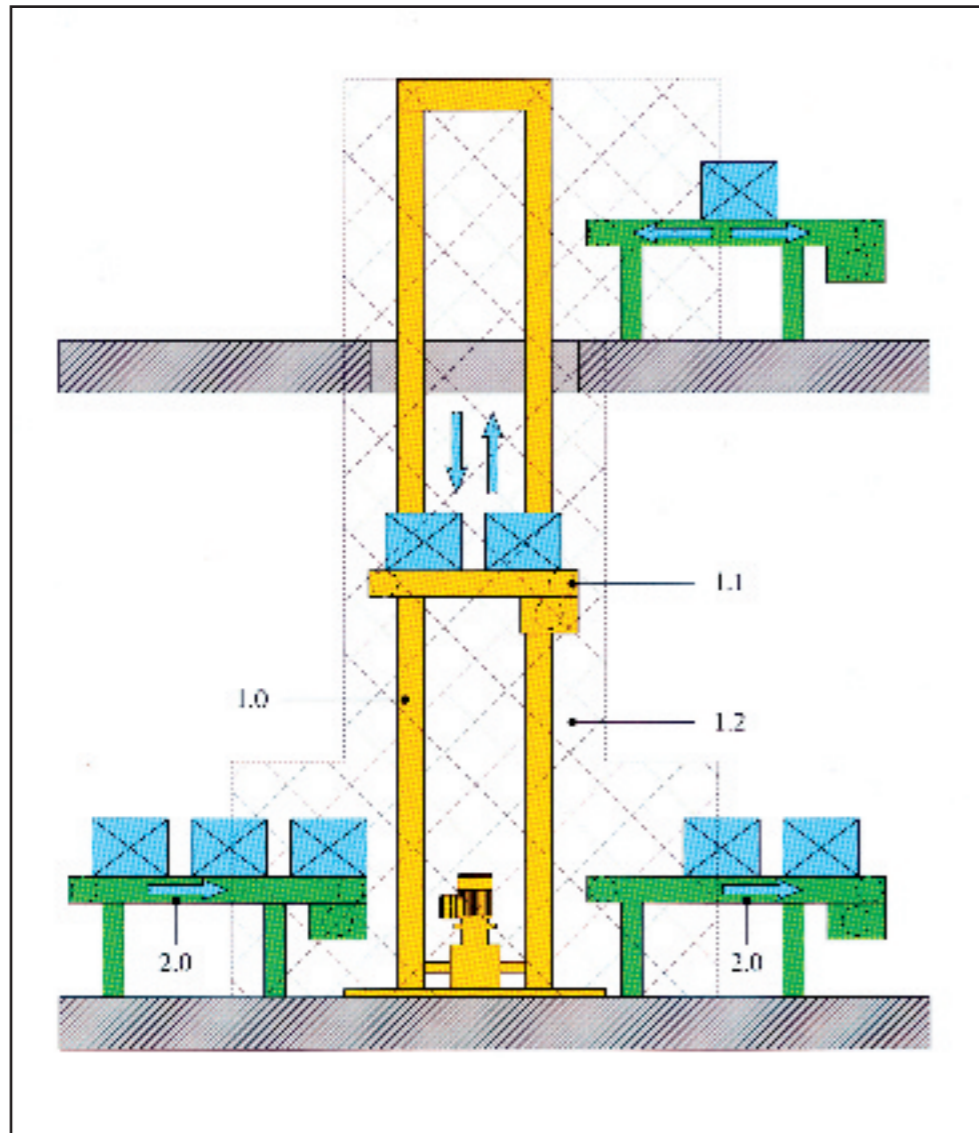
Or visit our website in the Internet:  
<http://www.haro-gruppe.de>  
Email: [info@haro-gruppe.de](mailto:info@haro-gruppe.de)

# Vertical converter VF

## Three designs for individual application.

With the HaRo® vertical transporters in the VF range, we offer you the optimal opportunity to distribute your piece goods at several levels quickly and effortlessly. Three highly efficient options are available for individual selection. All in high-quality design with a stable skeletal structure basic frame made from sectional steel, frequency regulated, electro motorised lifting actuation and safety units installed by the manufacturer such as input tunnel and wire-mesh cladding in accordance with UVV.

HaRo®- Vertical transporters in the VF range are distinguished by exact linear guiding to achieve precise positioning. The control via angular momentum regulator or the initiators permits a smooth starting and deceleration process at simultaneous optimised speed and cycle rate. The HaRo®- Vertical conveyors combine precision and performance with high cost effectiveness. According to the individual requirements, the system can be projected and supplied equipped with a roller belt, a chain conveyor or a belt conveyor for horizontal input /output motion.



### Basic technical data (applies to all models:)

- Width/depth: dependent on material to be transported
- Effective travel: up to 10,000 mm
- Guides: linear guides, plain bearing
- Gearing: chain drive
- Protection systems: Wire mesh guard, input tunnel and inspection door
- Horizontal design element: roller conveyor, belt conveyor, chain conveyor
- Colour: RAL 1018/5007

We reserve the right to make technical alterations and further developments.

### Vertical converter VF

- 1.0 Vertical converter
- 1.1 Horizontal conveyor
- 1.2 Safety guard with tunnel
- 2.0 Aligned follow-up conveyor

### Vertical conveyor VF 02

Our specialist for light-weight items.

The HaRo®- Vertical converter VF02 is specially developed for the transport and distribution of light-weight goods such as commissioning cases, parcels, tyres and other light-weight transported goods. The unit is convincing due to the high cycle performance, cost effectiveness and reliability. It is built in a sturdy double column construction with a maximum loading capacity of 200 kg.

#### Basic technical data

- Model: two column type HN 92020
- Max. load: 200 kg
- Cycle capacity: up to 200 items./ hour (travel dependent)
- Drive: brake motor up to 1.1 kW frequency regulated
- Chains strands: 2 x 3/4 simple chains



### Vertical conveyor VF 05

Constructed for higher loads.

The Haro® Vertical converter VF 05 is the consequential enhancement of our tried and tested VF 02 and is specially designed for the conveyance of medium-weight transport goods. Light-weight pallets and cages can be conveyed quickly and effortlessly to the corresponding destination level with this system. Robust construction, stable double column type and powerful drive permit the conveyance of loads weighing up to 500 kg.

#### Basic technical data

- Model: double column type HN 92050
- Max. load capacity: 500 kg
- Cycle capacity: up to 60 pcs. / hour travel dependent
- Drive: brake motor up to 3.0 kW frequency regulated
- Chain strands: 2 x 1" simple chain



### Vertical conveyor VF 10

Just right for heavy loads.

With a maximum load capacity of 1,000 kg, the Haro®- Vertical converter VF 10 is outstanding in the transport of heavy pallets and containers as well as oversize building components. The heavy-duty four column type with the absolutely buckling-resistant profile steel frame permits heavy-duty performance and exact repeat accuracy.

#### Basic technical data

- Model: four column type HN 92000
- Max. loading capacity: 1,000 kg
- Cycle capacity: up to 30 pcs. / hour travel dependent
- Drive: Brake motor up to 15.0 KW frequency regulated
- Chain strands: 4 x 3/4" duplex chain

