

VERTICAL CONVEYING / RINSING / BLOWING-OUT

SIDE GRIP CONVEYORS

LEAD BY IDEAS

For the gentle transportation in vertical direction we are using the gripper technology provided by Gronemeyer. For decades, it has been being used successfully in the most diverse industrial fields. Due to the soft gripping process, even sensitive products can be conveyed. Falling out or turning of the conveyed goods is prevented with the least possible gripping pressure. By using different materials and structure of the gripper chain, small and filigree products (small jars, preforms) can be transported in the same way like big, heavy packing units (KEGs, boxes, cartons).

Cross-system characteristics:

- extrem product-caring material conveying
- very noiseless transport in continuous material flow
- high conveying capacity (up to 80,000 units/h)
- stable steel structure in painted or stainless steel „Hygienic Design“ execution
- product change within seconds by centralized width/height adjustment
- application-specific design variants of rubber profiles and carrying plates, for e.g. heat-resistance up to 85°C and FDA-conformity of the gripper profiles

Available additional equipment:

- automatic tensioning stations for the gripper chains
- motor-driven width/height adjustment
- wear-reducing revolving idler discs within the curves
- independent control with congestion monitoring
- infeed and discharge conveyors

Depending on the application, different gripper conveyor systems are available.



Gronemeyer
CONVEYING SYSTEMS



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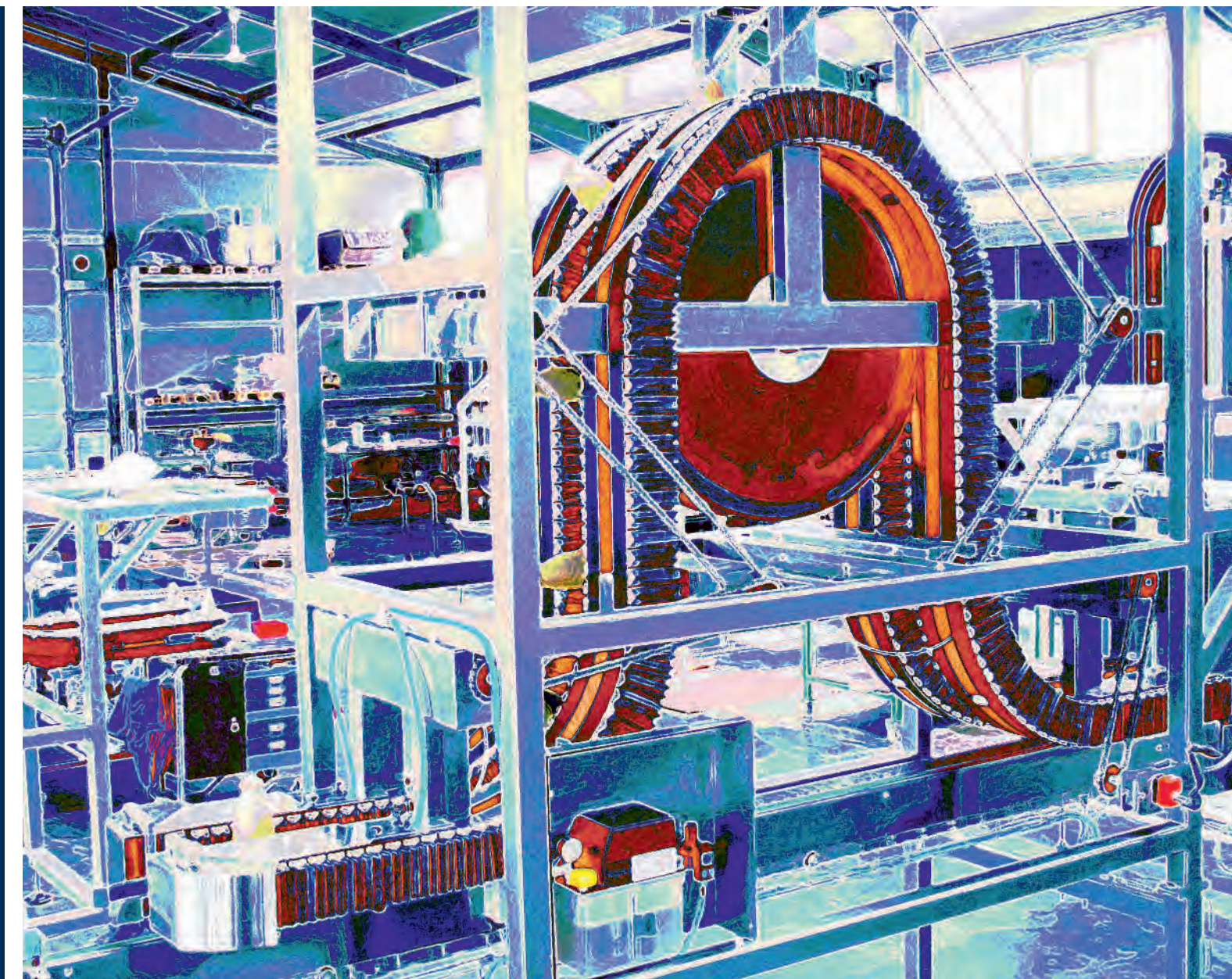
Your innovative system supplier

- Planning
- Realization
- Service

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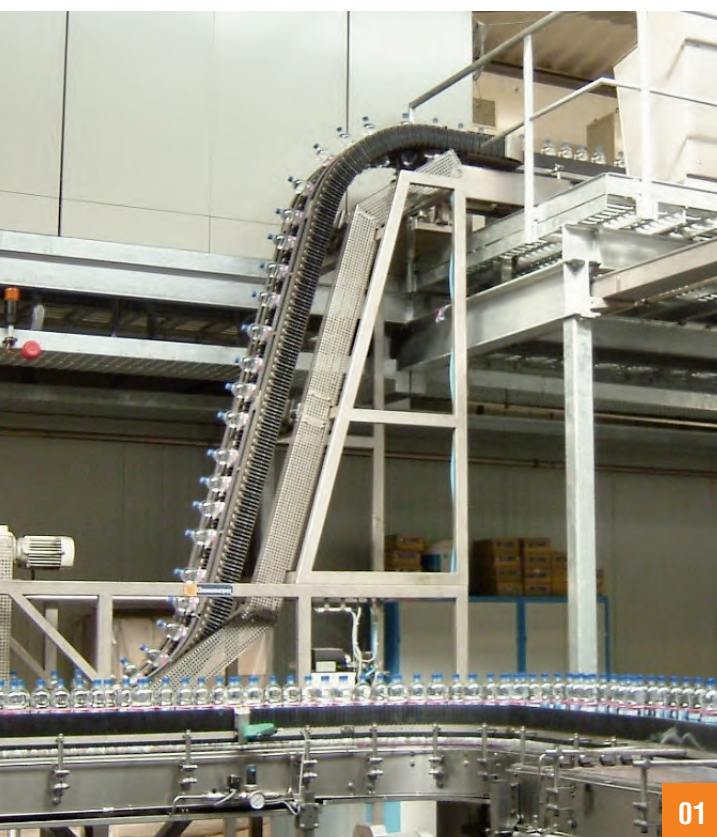
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Individual
conveying systems
for horizontal and
vertical transport

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01



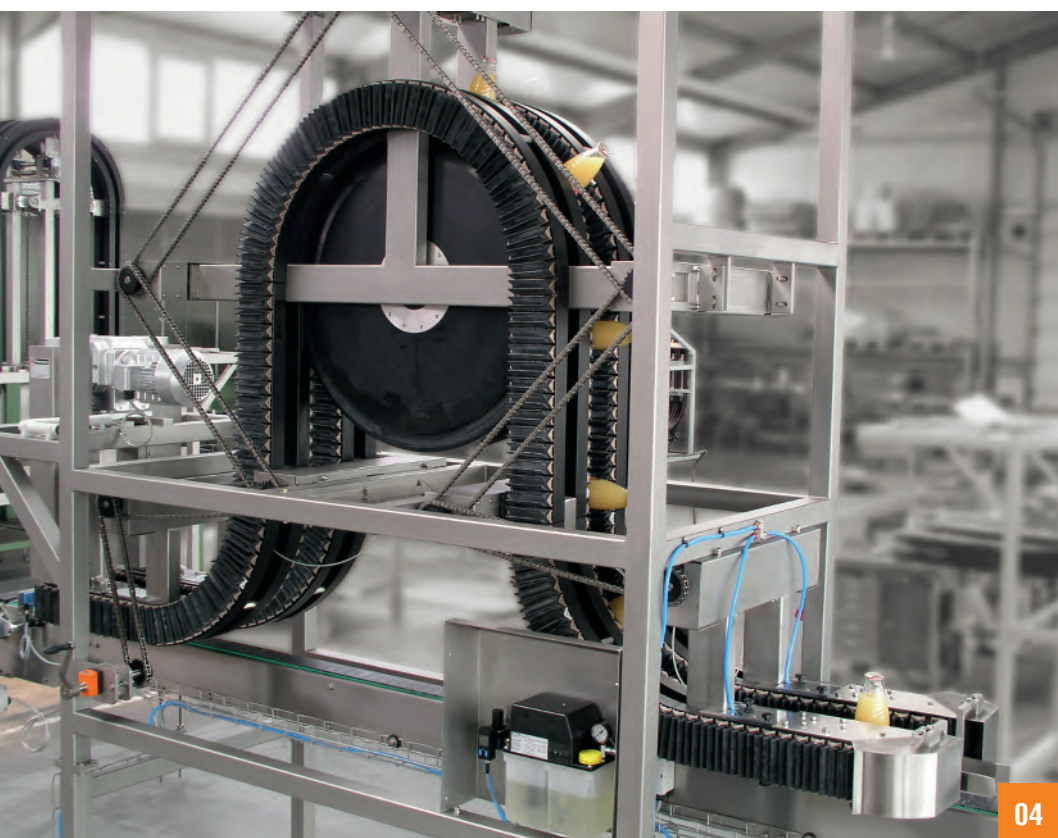
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02



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01 Vertical Conveyor

In the classical sense, this conveyor principle is used for overcoming height differences in production lines. Unit load weights up to 40 kg and height differences of more than 12 metres do not pose a problem for the Gronemeyer plants. With this conveying principle it is possible to transport not only bottles but also cans, cartons, etc., upwards and downwards.

02 Bottle Turner / Crate Turner / Gravity Drainer

The internal cleaning of new glass and PET bottles or cans before filling is done by our Bottle Turner. Supported by blown-in sterile air as well as an optionally available vibration bar and exhaust device, particles are removed from the containers. Using this principle, also crates can be emptied or the residual liquid can be removed from the returnable bottles, before they are led to the respective inspection machines.

03 Rinser

Our rinser provides the possibility of cleaning new glass and PET bottles by means of water. Additives can be used for achieving a germ-reducing effect of the flushing medium.

04 Cap Moistener

For hot and cold filling of fruit juice and soft drinks we are offering a simple and cost-effective solution for neck space moistening. Due to the vertical moistening zones, the machine can be adapted to the specified moistening times and can be integrated even in limited spaces into an existing filling line.

05 Roadway Bridge

To improve the accessibility of certain parts of the plant, the lines can be installed in a space-saving way bridging a passageway or travel path. If necessary, the design can also be extended by a blowing-out device, so that the machine is simultaneously used as bottle turner. The cap moistening can also be combined with the roadway bridge.

06 Special applications

The gripper principle is applicable in such a flexible way that new possibilities for application are found again and again. Defined changes of product orientation like putting up of packages, lifting of products out of the workpiece holders or simply the labelling on the bottom of the packages, everything is implemented in the continuous product flow without any cyclic transport.

Examples of design

