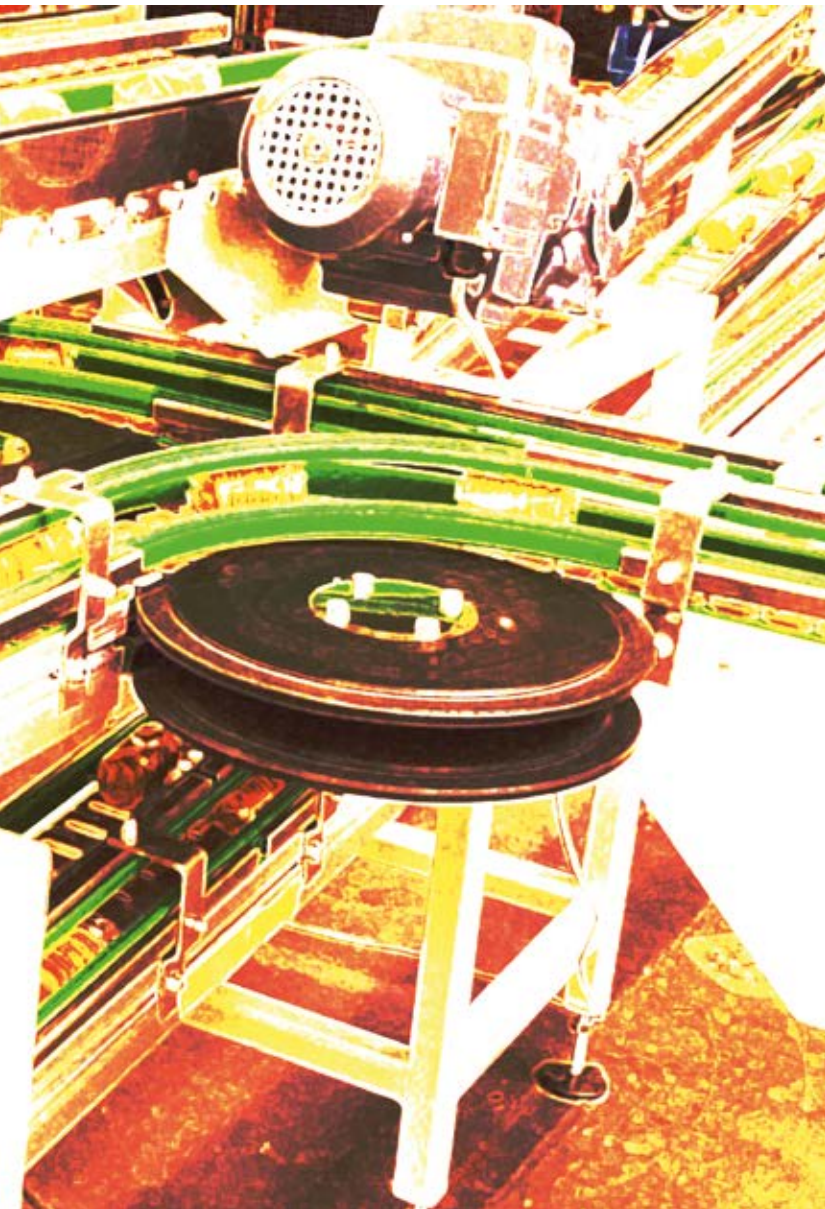




Gronemeyer

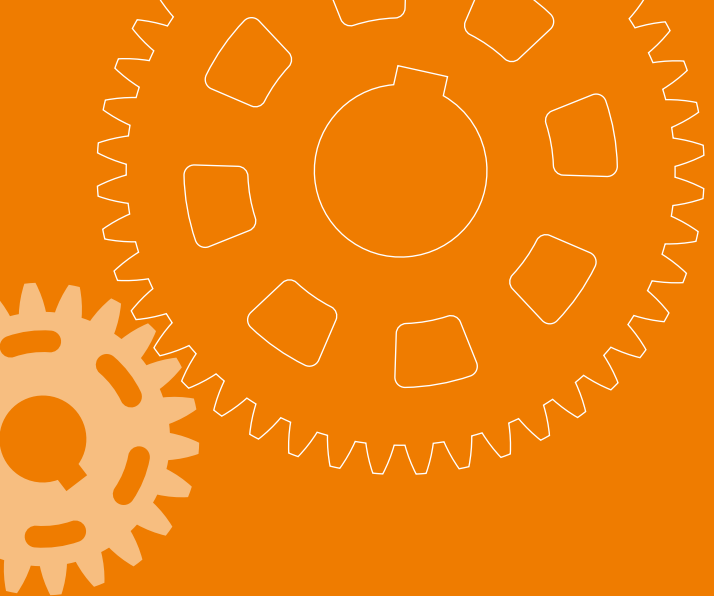
CONVEYING SYSTEMS



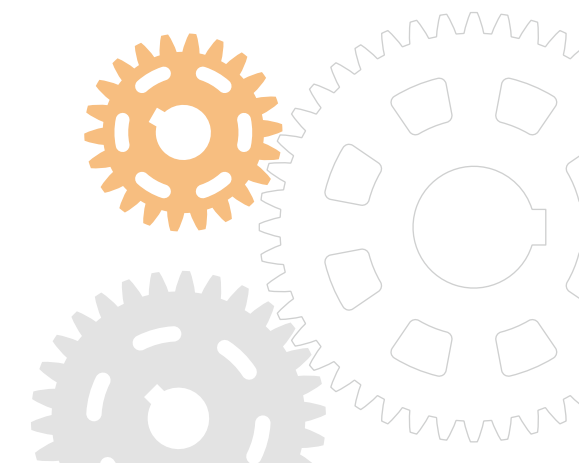
Your innovative
system supplier

- Planning
- Realization
- Service

Conveying Systems
Interlinking
Material Handling



LEAD BY IDEAS





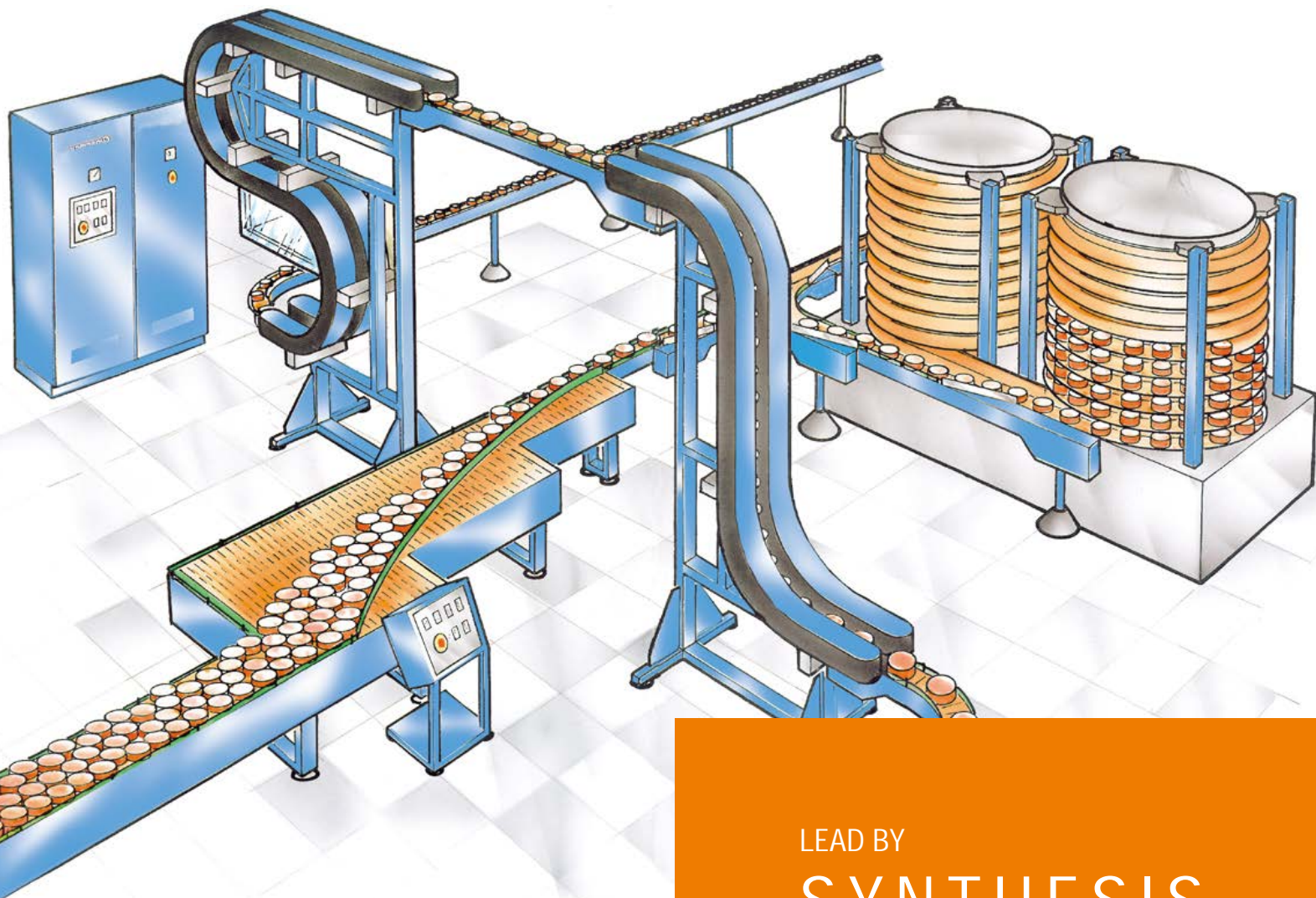
LEAD BY
EXPERIENCE

One century of Gronemeyer Maschinenfabrik

In the year 1918, August Paul Gronemeyer founded his business for the manufacture of chains and elevators in Düsseldorf. His start-up capital was craftsmanship and a good piece of entrepreneurial spirit. After all production equipment had been destroyed in the Second World War, the successful reconstruction of the enterprise started in Höxter on the Weser in 1945. The two changes of generations in the company management in 1967 and 1994 are the proof of that, so that Peter Gronemeyer is now continuing the modest further development of production capacity and product portfolio in the 3rd generation.

Since the middle of the seventies, our business success has been being based on the areas of design and production of conveyor systems. These systems stand for functional reliability and long lifetime in the food and beverage industry as well as in the glass and pharmaceutical industry. In the age of globalisation, international business relations have made this reputation public also beyond the borders of Germany and Europe. The key for the successful existence of the company includes customer proximity, high quality standards and delivery reliability. From planning to commissioning - everything from one source.





Concatenation of lucky circumstances: using optimal connections

During the planning phase of the production equipment, conveyor systems are often disregarded. However the following is known: A system is always as powerful as its weakest link. Therefore, modern production machines need optimum interlinking to be really effective. This applies to both high production capacities and flexibility in case of product changes. Furthermore, today products are not only transported from one machine to the next one. Besides the pure transport, special requirements are often made on conveyor systems: Vertical conveyor, intermediate storing, cooling, tempering, distribution, aligning. Often it is not possible to use standard components for these applications. Exactly in this point, Gronemeyer's decades-long, cross-sector experience comes into effect. We deliver a conveyor system that is customized to your individual demands.



LEAD BY
SYNTHESIS





LEAD BY
FLEXIBILITY

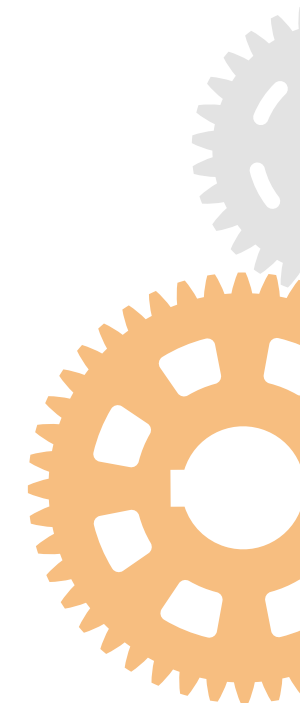
Conveying systems that meet all requirements

- Individual plant engineering on the basis of modular design principle

Conveying systems are used for the internal material flow of packaged goods as well as for interlinking of production machines and must meet individual demands. All systems are designed in a way that their standard components can be individually combined and represent a modular design. For this purpose, for example, straight running and side-flexing slat-band chains of plastics or steel can be used in the same way as it is for modular belt chains of plastics. Even for later changes of the original conveying course, these components can be combined in any desired way without problems.

- Special systems in plant engineering - new and further developments

Plants with special requirements need innovative solutions that are not covered by standard components. Again and again, new improved production processes lead to changed conditions to the conveying technology: changed material handling, or new process technologies. Gronemeyer is exactly offering this flexibility and with this, customized solutions for special systems.





LEAD BY ORIENTATION

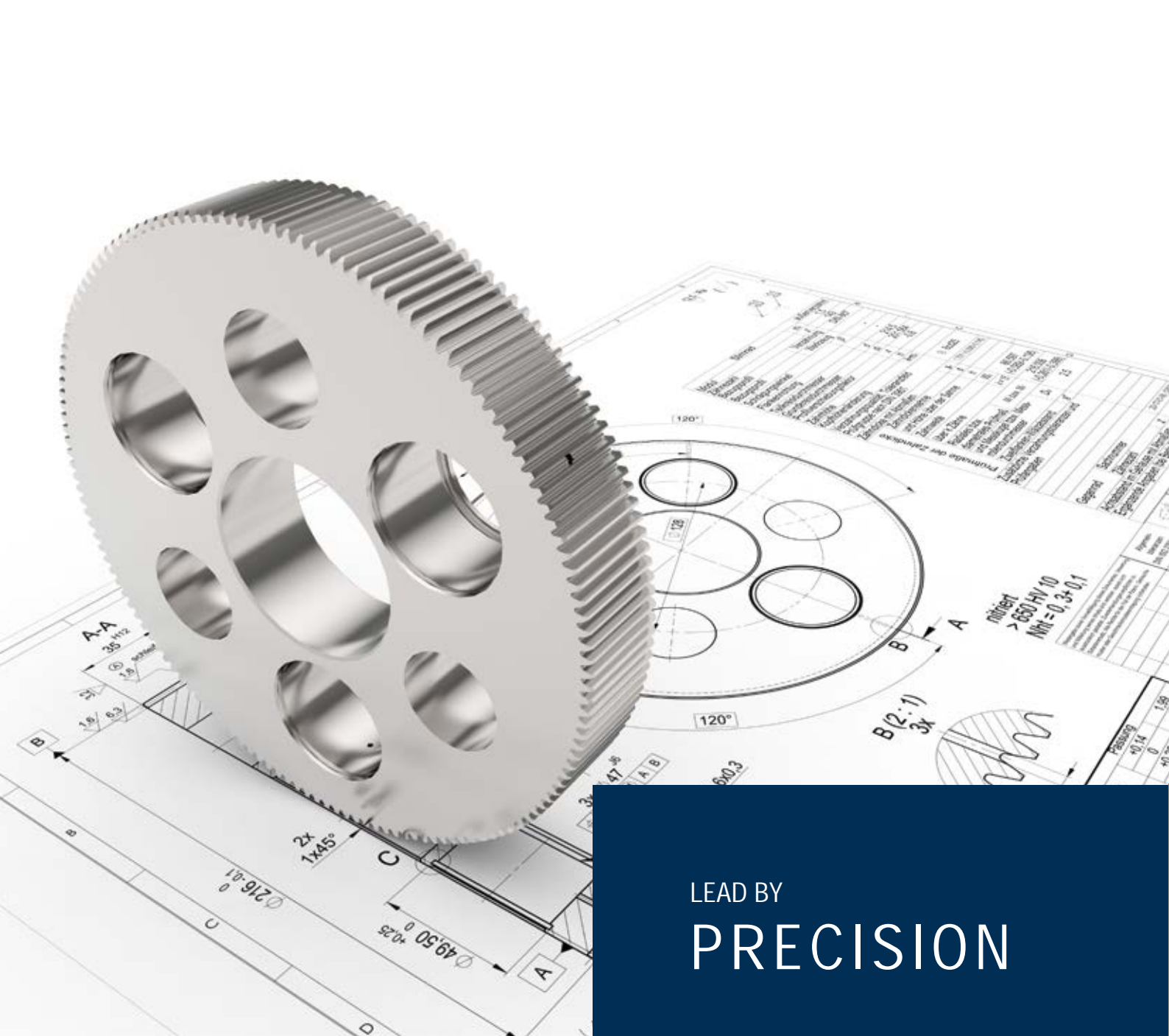
Everything from one source: **Planning** + Realization + Assembly + Service

Only with conveying technology, the individual production machines can form a functioning system. Here, it realizes not only the transport of the product but also takes over tasks like distribution, aligning or buffering. In order that a production line can optimally work, well-conceived and targeted planning is the precondition. Definitely that is provided by Gronemeyer.

We develop EDP-aided, conclusive concepts for you - no matter whether it is about planning of new plants or optimization of existing procedures. With this, our long-term experience in the most different industrial fields forms the basis for technically and economically optimized material flow solutions. Visualization and simulation tools demonstrate later functioning. The finally created specification documents are outstandingly suitable for the implementation of your project. With us, you have found the suitable partner for it.

- Target-oriented planning
- EDP-aided concepts
- Visualization and simulation tools
- Technically and economically optimized material flow solutions





LEAD BY
PRECISION

Everything from one source: Planning + **Realization** + Assembly + Service

A well attuned team of experienced designers and engineers forms the backbone at Gronemeyer. Approaches worked out in the planning phase are fast and purposefully implemented in the design and working schedules during the implementation phase. The use of most modern 3D-CAD technology always provides for the overview required for complex large-size plants.

In-house production of driving elements provides the vertical range of manufacture notably required for special systems. This reduces delivery times and ensures high availability of plant-specific parts.

Our particular attention is focused on the interfaces to the machines to be integrated. The reason is that only early functional and safety-related analyses allow smooth commissioning and provide the basis for the later CE marking of the complete plant.

- Fast and target-oriented realization
- 3D-CAD technology provides an overview
- Premature analysis of interfaces to the machinery to be integrated
- In-house production of driving elements





LEAD BY OVERVIEW

Everything from one source: Planning + Realization + **Assembly** + Service

Nothing sets back a producing company more than the standstill of its plants. Then, it is no matter whether it is caused by the conversion of existing systems or the installation of new systems. Therefore, Gronemeyer's proven philosophy is to assemble the machinery completely and wire it at their own factory in Höxter in order to be able to deliver them ready for operation as far as possible. Only for transportation to the customer, the plants are disassembled to form easy-to-handle parts.

Assembly teams that have already constructed the plants at our company, carry out the final installation at the customer's site. This strategy and the delivery of plants that are ready for operation reduce the mounting times on site to a minimum. With this, the impact on adjacent production areas is considerably reduced.

Our experienced assembly teams work in cooperation with the customer and the responsible persons of other trades involved. In the course of a project management we would also like to take over the timing for the several steps of installation.

- Delivery of ready-to-operate machinery
- Final assembly by means of experienced assembly teams at the customer's site
- Co-ordination of assembly tasks on site
- Reduced assembly times





LEAD BY
CONTINUITY

Everything from one source: Planning + Realization + Assembly + **Service**

After the commissioning of the plants, we are also offering monitoring and maintenance of conveyor systems to provide for their continuous availability:

- Inspection of the plant with assessment of condition, re-adjustment, lubrication and preservation as well as replacement of wearing parts
- Reliable and prompt supply of spare parts from the well assorted stock and the in-house manufacturing facilities
- Failure analysis with following proposal for remedying of the fault and co-ordination of all measures taken
- Maintenance contract with maintenance management, deadline tracking and inspection dates at regular intervals

Your advantages:

- High availability of the plants and longer lifetime of plants
- Early recognition of defects and failure risks and with this, better predictability of repair measures
- Transparent costs, value preservation and cost reduction

- Inspection and failure analysis
- Maintenance management
- Value preservation and cost reduction
- High plant availability



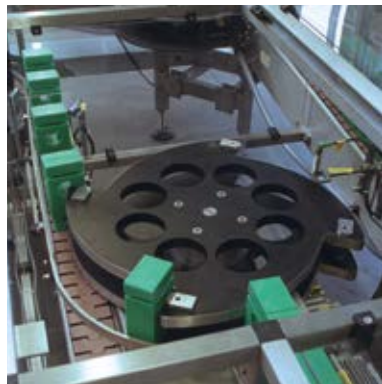


Product overview:

Interlinking of production machines makes the most diverse demands on the conveying technology. Depending on product dimensions and characteristics, production capacity, environmental conditions and degree of automation, solutions must be created that are adapted to the highest degree and, in certain cases, very individual. On the basis of a standard product range, Gronemeyer is offering customized solutions. Besides variants, also complete new designs will be come into use.

- Slat-band and modular belt conveyors in hygienic design
completely manufactured of stainless steel in open design in order to prevent deposits and for easy cleaning
- Slat-band and modular belt conveyors in Gronemeyer Aluminum design
extremely stable, in modular design, suitable in dry environment
- Gripper conveyors
continuous, gentle, and noiseless vertical transport of products; adaptation to the most diverse formats without tools and within seconds
- Bottle Turner / Rinser
blowing-out or rinsing of bottles meant for additional cleaning of new glass jars and plastic containers before filling
- Cap Moistener
reduction of germs in the bottle neck zone by applying heat or Velcorin after filling up
- Spiral Flow System
for thermal treatment of products, complete with the respective cooling and temperature controlling systems in an own insulation hood





- FiFo-Buffer System

intermediate storage of products for decoupling of production machines

- Vertical Buffer

buffering of workpiece carriers as well as cartons and packages

- Star-shape distribution system

applicable at average line capacities of cylindrical products like cans, jars and cups

- Synchro Guide

batch-by-batch distribution from one-lane product streams to two or more lanes, suitable for high line capacities up to more than 800 units/minute

- Angular Transfer Unit

for turning format items from lengthwise to transversal transport


- Chain Washing Device

for cleaning of modular belts at running conveyor and for avoiding continuous deposition of pollution in/on the chain

- Programmable logic line control

depending on the degree of automation with plant visualization and remote maintenance, also decentral via fieldbus system





We are working in the following industrial fields:

- Food Industry
 - Beverage Industry / Breweries
 - Pharmaceutical Industry
 - Health Care
 - Glass Industry
 - Chemical Industry
 - Paints and Coatings Industry
 - Building Material Industry
 - Automotive
- 



Gronemeyer

CONVEYING SYSTEMS

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