



# CONVEYOR AND STORAGE TECHNOLOGY

LIGHT DUTY  
CONVEYOR TECHNOLOGY

HEAVY DUTY  
CONVEYOR TECHNOLOGY

EFFICIENT  
STORAGE

SPECIAL MACHINE  
CONSTRUCTION

AUTOMATION

24/7 SERVICE

COMPONENTS

SOFTWARE  
DEVELOPMENT

**YOUR PARTNER**  
FOR COMPLETE SOLUTIONS



**PRODUCTION**  
made in **GERMANY**



# CONTENT OVERVIEW



04-05  
**DEVELOPMENT AND  
PRODUCTION**



20-21  
**SOFTWARE  
DEVELOPMENT**



06-07  
**OUR  
SERVICES**



22-25  
**EFFICIENT STORAGE  
SMART-FLEXDEPOT**



08-11  
**LIGHT DUTY  
CONVEYOR TECHNOLOGY**



26-29  
**SPECIAL MECHANICAL  
CONSTRUCTION**



12-15  
**HEAVY DUTY  
CONVEYOR TECHNOLOGY**



30-33  
**COMPONENTS**  
Manual and powered



16-19  
**AUTOMATION**



34-35  
**24/7 SERVICE/  
REFERENCES**

AMI develops the latest technologies in storage logistics. The interplay of good industry knowledge and technological expertise paves the way for successful automation concepts and solutions.



**WE DEVELOP  
AND CREATE FOR YOU!**



Founded in 1987, AMI Förder- und Lagertechnik GmbH, based in Luckenbach, is today one of the leading solution providers of partially and fully automated intralogistics systems. With more than 200 employees, the company develops, plans, produces and implements individual components and complete intralogistics solutions. AMI addresses the requirements of digitalisation with the help of appropriate software solutions.

The high vertical range of manufacture of over 87% also allows AMI to deliver at any time and to respond to individual customer requests. Implemented projects in numerous

European and non-European countries also demonstrate AMI's path into international intralogistics user markets.

In all projects, whether in the domestic market in Germany or internationally, modern technologies and a team of experienced service and maintenance specialists ensure efficient system operations.

AMI's customers include leading brands and companies from all sectors of industry, trade, e-commerce and logistics services.



## Our services

Consulting, planning, project  
planning, realisation

Manufacturing  
(87% vertical range of  
manufacture)

Automated intralogistics  
systems

Components

Modules

Industry, pro-  
duction, retail  
solutions

Support,  
24/7 service, spare  
parts service

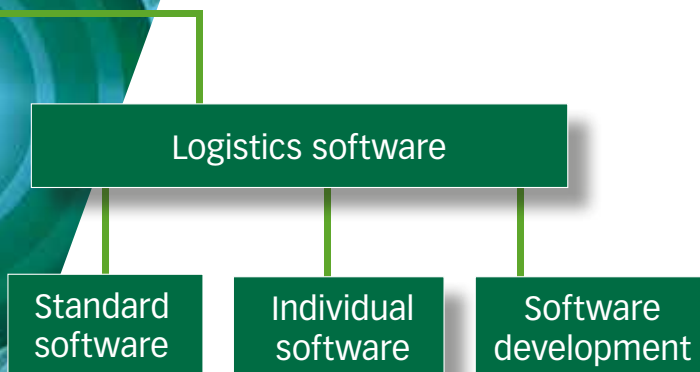
# EQUIPPED FOR THE START

WELL ADVISED.

WELL THOUGHT OUT - DOWN TO THE LAST DETAIL

Every intralogistics system is only as good as the analysis of its initial situation. This analysis is also the first step of the AMI experts in project development and the start of the subsequent consultation, in which the basis for planning is developed. The focus is on the individual material flow systems and their functions for an efficient overall intralogistics system as well as the interface issues.

In this phase of the planning, the question of the use of suitable software, for example the networking of the conveyor and storage technology components, also plays an important role. This is decisive for the right degree of automation. The guiding principle is that intralogistics must be able to react as flexibly as possible to changes in the market. AMI experts are supported in their planning work, which is structured down to the last detail, by modern programmes such as the latest versions of ERP and CAD.





Container transport system







# LIGHT DUTY CONVEYOR TECHNOLOGY

## INNOVATIVE SOLUTIONS FOR PRODUCTION AND SHIPPING

Wherever the design of production processes and shipping procedures must be efficient and economical, components and systems from AMI light duty conveyor technology are the right choice. With special conveyor technology for lightweight goods - transported in containers or cartons - intralogistics processes can be optimised in almost all industries, including mechanical engineering, the automotive industry, medical technology, the pharmaceutical sector as well as in e-commerce and in the paper or plastics industries.

Like all AMI conveyor systems and equipment, our light duty conveyor technology is also based on a sophisticated modular system of components, modules and intelligent control systems and a wide range of standardised accessories.

With a service package tailored to individual requirements, AMI experts ensure professional, quick and precise project implementation for both standard and customised conveyor systems. The range of services extends from consulting and planning to design and production to installation and commissioning.



Vertical conveyer



# LIGHT DUTY CONVEYOR TECHNOLOGY

REFERENCE SYSTEMS



The **AMI 24/7 service** ensures maximum system availability 365 days a year, around the clock.  
For more information, see page 34.

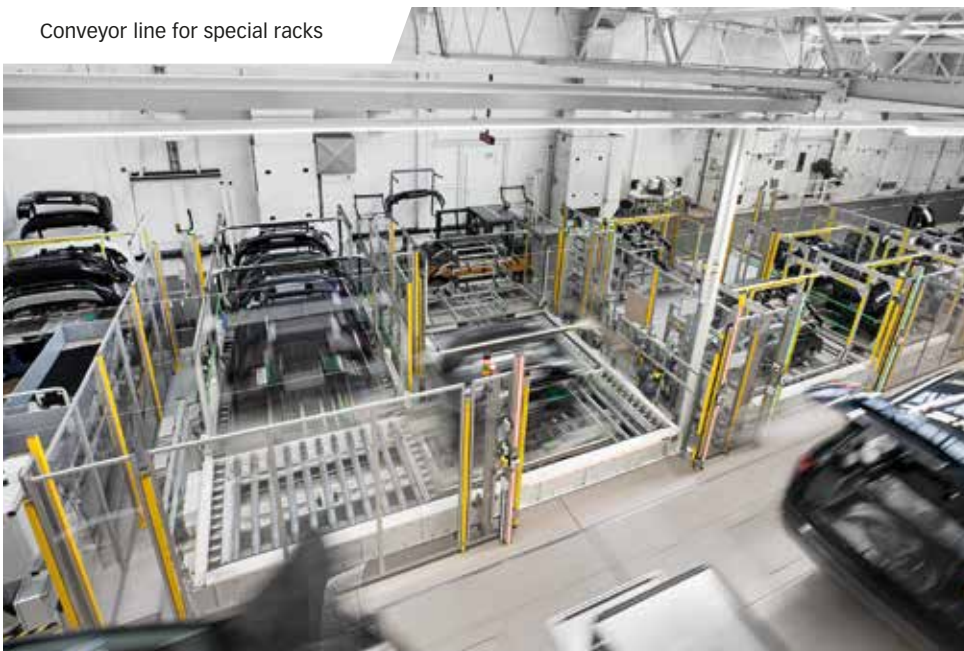
# HEAVY DUTY CONVEYOR TECHNOLOGY

## HEAVY LOADS, BULKY GOODS

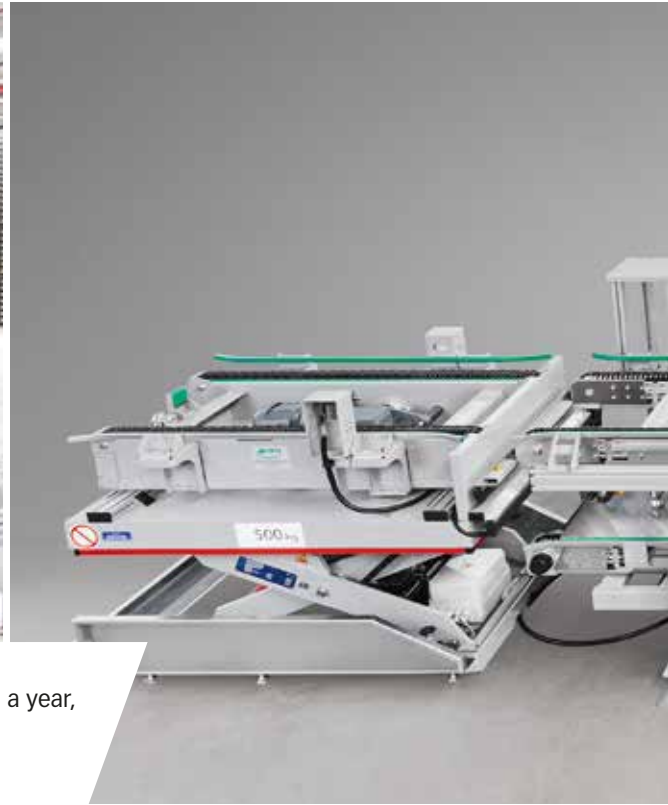
The transport of heavy loads is still one of the special tasks of conveyor technology. Based on the weight, dimensions and external characteristics of the goods to be transported, the operator's requirements for the respective transport task must be implemented using appropriate conveyor technology. This is often based on complex requirement profiles which our planners and designers use to develop an appropriate and efficient system.

The range of goods to be conveyed extends from loaded pallets and pallet cages to containers and special load carriers. Due to our high vertical range of manufacture, we can also realise complex systems for the transport of heavy, bulky goods - using specially manufactured components - beyond the standard and based on individual requirements. We aim to deliver at any time and offer the highest quality and system availability.

Conveyor line for special racks





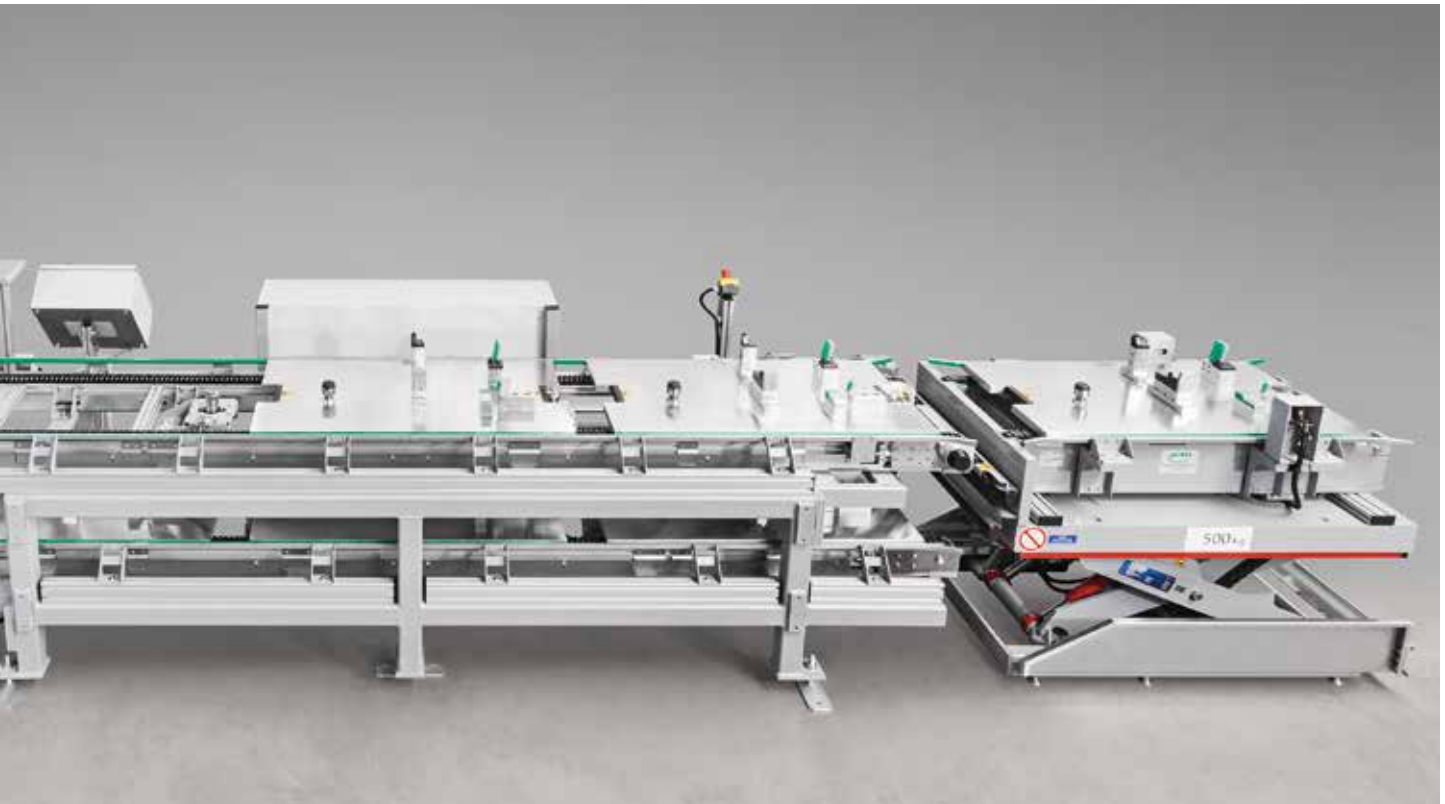


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# HEAVY DUTY CONVEYOR TECHNOLOGY

REFERENCE SYSTEMS





Robotic palletising and automatic wrapping of the full pallets with subsequent removal to the deep-freeze warehouse using powered heavy duty conveyor technology.







# AUTOMATION

## INNOVATIVE DIGITALISATION

Digitalisation is advancing rapidly. At the same time, the complexity of processes and systems in production and intralogistics is increasing. Networking of all partially and fully automated systems involved in the internal value chain is an important prerequisite in order to be able to exploit the potential. The exchange of data between components of the conveyor and storage technology as well as robot-supported systems, such as those used in order picking, palletising or for handling in production, is elementary.

In order to find the right level of automation for the individual project requirement, we work together with our customers to develop the right and consistently effective automation solution from a single source. In this way, a high level of performance and efficiency can be generated from the intralogistics system or a material flow system realised using appropriate components and subsystems in the manufacturing industry.

In addition, unnecessary interfaces can be avoided and maximum flexibility is achieved. The interaction of modern control technologies with our innovative conveyor and storage technology components - also on individual customer request - stands for this as well as the possible connection to our WLS warehouse logistics system.

Two cartons of different sizes are placed in the carton magazine. They are removed by a robot, stood up fully automatically and closed from below. The carton is placed in the tipping device and automatically filled with sacks.



Robot milling cell



Fully automatic line  
for the assembly of hinges



Fully automated palletising using  
robot-assisted systems.

## **WLS SOFTWARE PLATFORM**

### WAREHOUSE LOGISTIC SYSTEM

#### **INTERESTING FACTS**

Just as important as the physical transport of containers of all kinds is the tracking and target specification for these containers. Our **WLS** (Warehouse Logistics System) software platform offers a comprehensive set of modules for this purpose, which maps all your software processes between incoming and outgoing goods.

#### **Highlights include:**

- **Order management**
- **Material flow (transport orders/tracking/tracing)**
- **Warehouse management**
- **Gate management**
- **Incoming/outgoing inspections**
- **Maintenance management**
- **Order picking**

The interaction is ensured via freely configurable processes (workflows). Of course, **WLS** also offers:

- **Comprehensive statistics,,**
- **Process diagnostics,**
- **Backup/restore**
- **Inspection technology**

to meet all the essential requirements of intralogistics. The system offers a sustainable increase in system efficiency and thus noticeable savings and efficient control, combined with long-term maintainability. Extensive log entries guarantee a detailed diagnosis of the internal system processes.

ANALYSIS

DESIGN

**SOFTWARE**

EVOLUTION

TESTING

IMPLEMENTATION

### **CONVINCING**

The AM WLS software platform is impressive for its simple, intuitive operation with a well thought-out menu structure. The modular structure offers a high degree of flexibility. The field of application ranges from simple visualisation tasks to middleware solutions that can connect systems of various types.

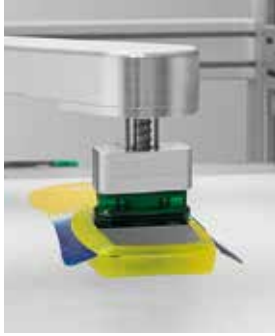
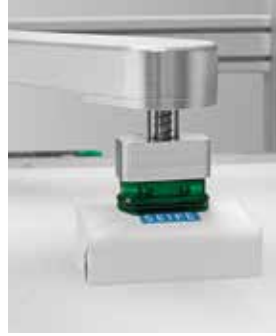
AMI WLS can be individually adapted to your needs. From the design of the user interface to interfaces to ERP systems or MES, WLS enables innovative solutions.

Benefit from easy maintenance through regular software updates. This keeps the solution up to date at all times.

Mobile solutions based on Android or iOS complete the portfolio.



Useful wherever square or cylindrical products as well as filled bags in various sizes and weights must be stored and picked.



Precise 3D measurement in storage mode records the shape of the products and determines the best possible gripping and depositing position.



The SMART-FLEXDEPOT has a double-rotating gripper system that facilitates handling of many geometries, including round bottles, oval tubes, cans and others. Your packages/products are moved gently using a suitably designed vacuum system. The handling system is adapted to the customer's product and requirements.



# SMART-FLEXDEPOT

made by **AMI**

FLEXIBLE STORAGE,  
**MAXIMUM PERFORMANCE**



INTELLIGENT, FLEXIBLE STORAGE AND  
ORDER PICKING WITH THE  
HIGHEST **USABLE VOLUME**  
AND **MAXIMUM STORAGE DENSITY**.

3D-ANIMATION



## STANDARD VERSION

The highest storage capacity in the smallest space is just one of the outstanding features of the SMART-FLEXDEPOT to ensure the availability and fast provision of goods and products for companies in industry and trade at any time.

Designed using a modular construction, the innovative technology of the SMART-FLEXDEPOT has a double-rotating vacuum gripper system. This means that square and cylindrical products as well as filled bag packaging can be stored with optimised utilisation volume and picked directly. The flexibly expandable SMART-FLEXDEPOT can be easily installed and mounted in existing buildings as well as in new buildings. Modern software and an app ensure simple operation and an overview of functions at all times.

# INDUSTRY SPECIFIED APPLICABLE

Retail

Wholesale and central storage

Spare parts

Pharmacies

Industry

Hospitals

Electronics

Chemical industry

Pharmaceuticals  
& Cosmetics

Our **SMART-FLEXDEPOT** can be used wherever square or cylindrical products as well as filled bags of different sizes and weights must be stored and picked. We would also be happy to implement a solution tailored to your company.

## MAXIMUM SYSTEM ADVANTAGES

- ➔ Space miracle
- ➔ Perfect fit
- ➔ East to use
- ➔ Modular expansion possibilities
- ➔ Maximum utilisation
- ➔ 24/7 service
- ➔ Automatic software updates
- ➔ Tailored design
- ➔ Top quality materials
- ➔ Low total weight



Scan for more  
information!



# SMART-FLEXDEPOT

made by **AMI**



Your automatic order picker can be manufactured in different housing designs. According to your individual wishes, the design spectrum ranges from standard aluminium profiles (special version: foiled) to dry construction or wooden cladding to sound-, cold- and heat-insulated special enclosures

## TAILORED DESIGN



## TIPPING DEVICE

Goods are fed horizontally to the tipping device via our conveyor. Here, there is already an unfolded carton that has been readied by a robot.

A sensor system detects whether the carton is in the correct position before the tipping device is set to an approximate 45° angle and goods are conveyed into the carton. As soon as the carton is upright, it is transported away via our 24 V conveyor system and the tipping device returns to its original position.



## VOLUME OPTIMISER

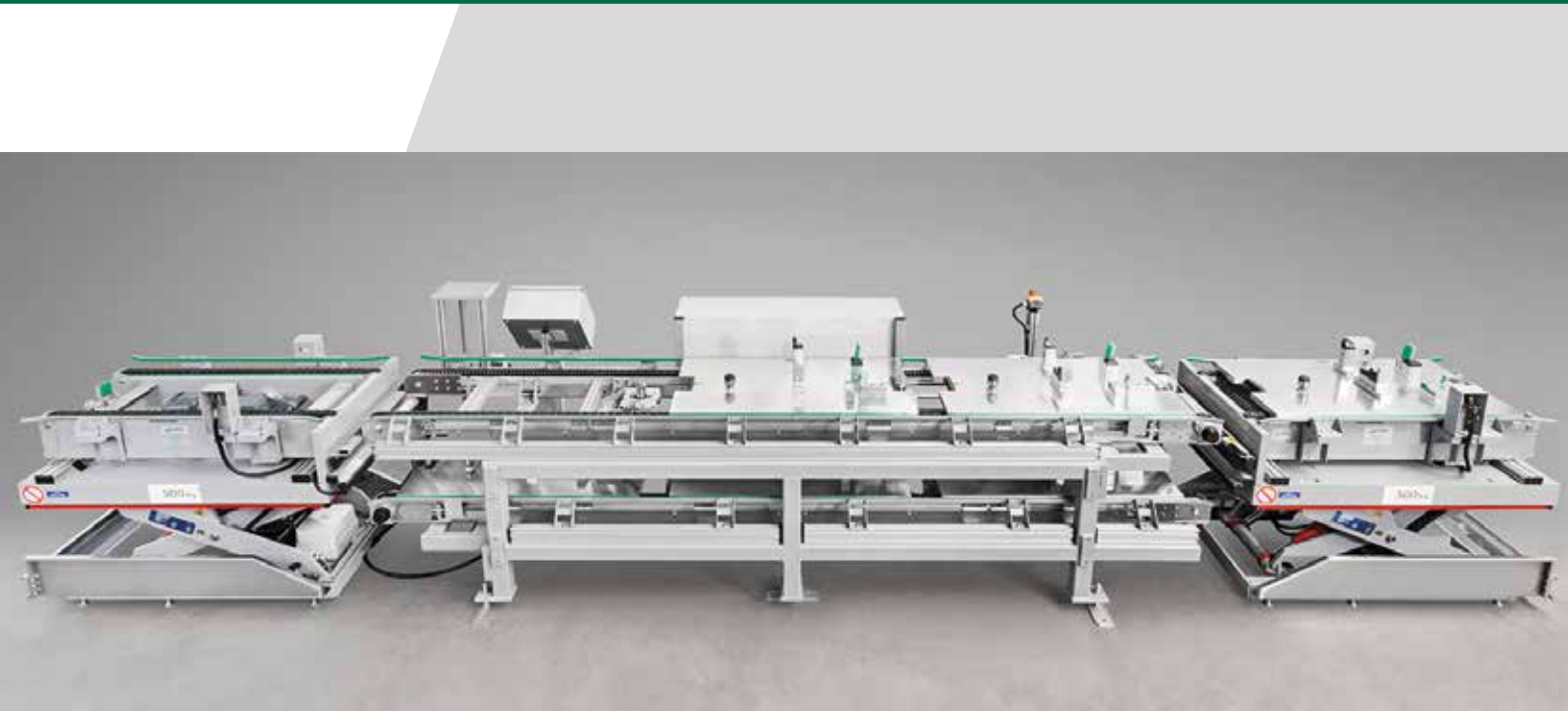
Before they are automatically closed, open cartons, including the protruding goods, pass through the volume optimiser to reduce the volume in the carton. The goods are folded by a pneumatic folding device and pressed into the carton.



# SPECIAL MASCHINE CONSTRUCTION

Depending on the products and their properties, the materials processed and the individual work steps, special machines should help to increase profitability, productivity and quality. It is important that special machines are planned professionally and set up reliably.

INNOVATIVE  
AND  
TAILORED  
SOLUTIONS



## WORKPIECE CARRIER CIRCULATING SYSTEM

The workpiece carriers circulate in a circuit consisting of two accumulation roller conveyors, one above the other (upper and lower conveyor level), and two chain conveyors, each mounted on a lifting station. The conveying direction on the upper level is from right to left and on the lower level runs left to right. On the upper level, the workpiece carriers are loaded with goods to be processed. On the lower level, the workpiece carriers are transported to the start of the machining process in order to be loaded. Two lifting stations transport the workpiece carriers between the two conveyor levels.

## DYNAMIC GOODS STORAGE DWS-2100

The dynamic goods storage (**DWS** for short) is used to buffer shipping objects such as polybags, packages, parcels etc. The **DWS** serves as a storage space for a maximum of 160 kg (depending on the fill level). The theoretical filling volume is approx. 1.6 m<sup>3</sup>, depending on the width of the **DWS** and the objects to be stored. The weight per shipping object must not exceed 32 kg. The machine is controlled via the connected control system and works automatically. No operator is required. An automatic height adjustment of the storage unit ensures an optimal filling and distribution level as well as an ergonomic working height. The **DWS** is mobile and can be folded up to save space. This makes it possible to store the **DWS** separately from the system if it is not needed. The **DWS** can be installed on existing conveyor lines thanks to various adaptation options.



## PALLETS AUTOMATIC DESTACKER/STACKER

The compact automatic pallet destacker/stacker PESA-15 is used for destacking or stacking Euro pallets. The pallets can be automatically fed individually via a conveyor line or individual pallets can be combined into a stack. The pallet can be advanced using either a powered roller conveyor (ARF80/89) or a powered chain conveyor (KF).



## AUTOMATIC DESTACKER/STACKER

AMI's automatic stackers and destackers can be equipped with different drives depending on the requirements. Pneumatically powered machines achieve hourly outputs of 1,000 to 1,500 cycles. Machines with servomotor-driven lifting axes and frequency converter-driven belt conveyors achieve outputs of up to 2,400 cycles.



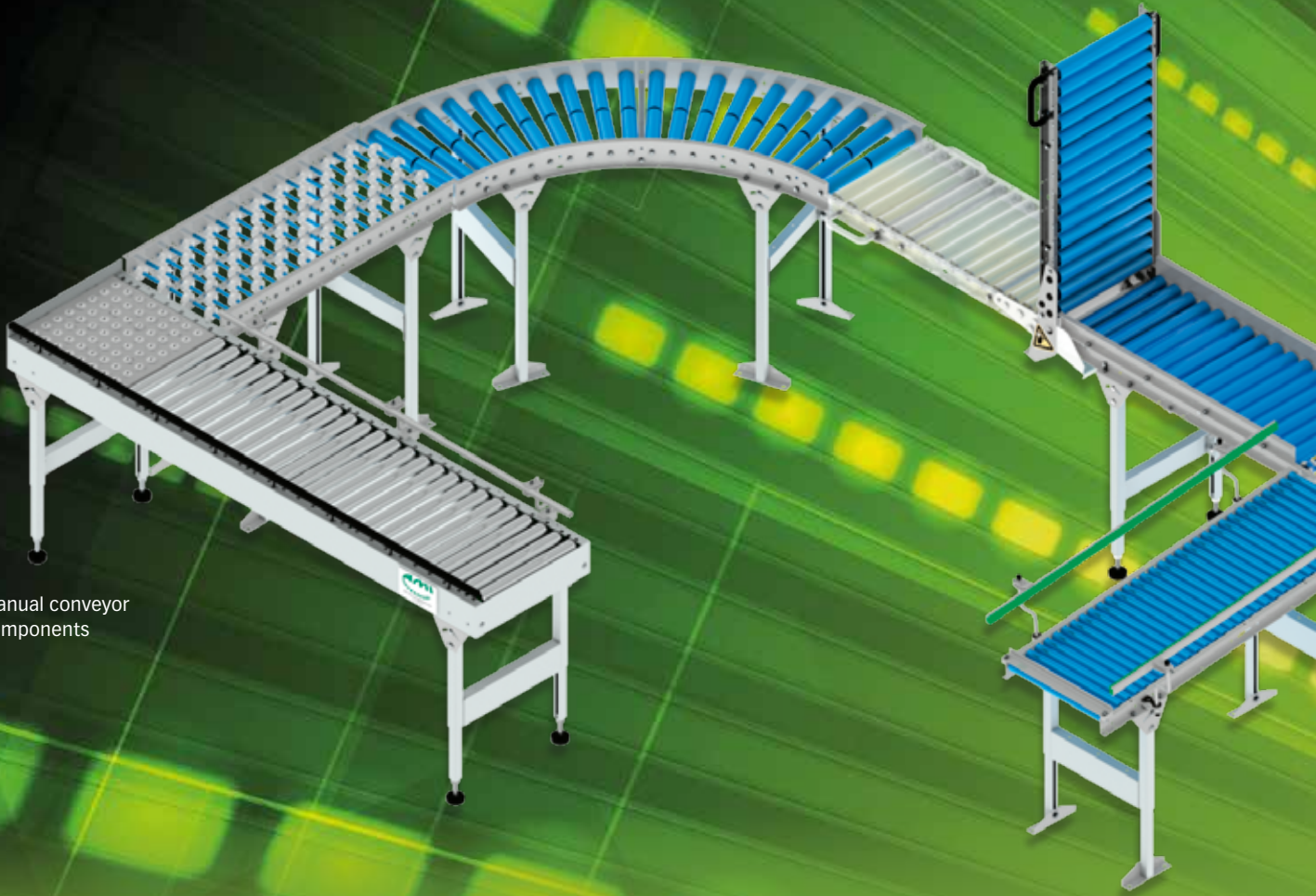
## AUTOMATED LIDDING SYSTEM

AMI's lidding systems allow containers to be closed quickly. The stacks of lids fed into the machine are brought to the right level using a lifting axis. Containers pass through the machine on a second cycled conveyor line and are positioned next to the lid stack for capping.

A handling unit consisting of a swivelling axis, a horizontal axis and a double suction crossbeam picks up the top lid and places it on the container. A special feature of the automatic machines is that they can process containers of different heights.



Manual conveyor components



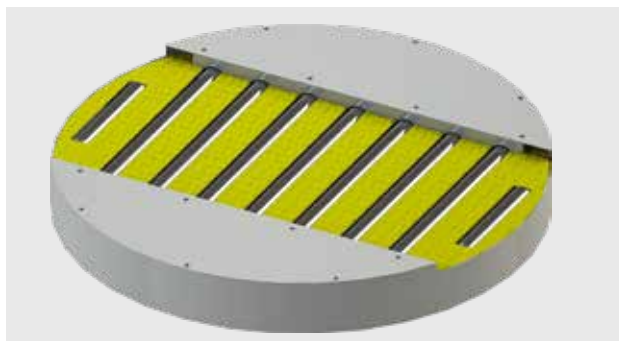
Scissor roller conveyor



Belt curve



Pop-up diverter



Turntable



# OUR COMPONENTS FOR YOUR SUCCESS

## MANUAL AND POWERED CONVEYOR TECHNOLOGY

AMI components and modules for intralogistics are used in numerous areas of small and medium-sized companies in industry and trade as well as in large companies.

Our system modules offer you a comprehensive range of manual and powered components. Integrated into the respective intralogistics systems, AMI components safely and efficiently transport your products, including cartons, totes and empty beverage crates.



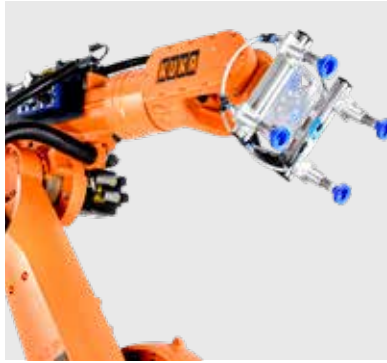
Powered  
conveyor components

# AMI BRINGS MOVEMENT INTO YOUR MATERIAL FLOW

GREATER EFFICIENCY WITH MADE IN GERMANY QUALITY

Every conveyor system and every intralogistics system is only as good as the individual components within it. Behind this is a high standard that we at AMI put into practice every day anew.

With the system components from our new catalogue, we bring maximum efficiency to your material flow. AMI stands for this with a high vertical range of manufacture of 87 percent, the highest „Made in Germany“ product quality as well as modern machinery and well-trained employees.



## AUTOMATION TECHNOLOGY

- Robot handling
- Linear handling
- Destacking/stacking machines
- Automatic lidding systems
- Label blow-off stations
- Cardboard magazines
- Tipping devices



## POWERED HEAVY DUTY CONVEYOR TECHNOLOGY

### Roller conveyors

- Pallet loading/unloading station
- Roller conveyors
- Pallet corner transfer unit
- Turntable with roller conveyor
- Accessories for heavy duty roller conveyors

### Chain conveyors

- 2-strand conveyors
- 3-strand conveyors
- Turntables with chain conveyors

### Heavy duty handling

- Heavy duty trolley
- Accessories for chain conveyors
- Automatic pallet inspection station
- Automatic pallet destacker/stacker

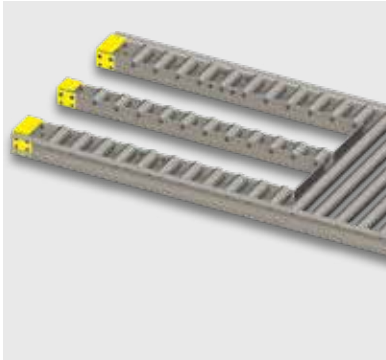


Scan for more information!



# OUR COMPONENTS

WE MOVE YOUR GOODS WITH INNOVATIVE COMPONENTS AND MODULES



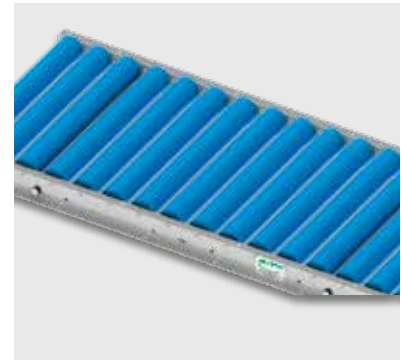
## MANUAL HEAVY DUTY CONVEYOR TECHNOLOGY

- Pallet loading station
- Heavy duty roller conveyors
- Pallet unloading station
- Accessories for heavy duty roller conveyors



## POWERED LIGHT DUTY CONVEYOR TECHNOLOGY

- Small belt conveyors
- Belt conveyors
- Accessories for belt conveyors
- 400-V-roller conveyor
- 24-V roller conveyor
- 24-V powered rollers cams
- 24-V powered roller gussets
- 24-V inclined roller conveyors
- 24-V roller lift bar
- 24-V pop-up diverter
- 24-V belt lift transfer unit
- Scissor roller conveyors
- Collection turntables
- Accessories for collection turntables



## MANUAL LIGHT DUTY CONVEYOR TECHNOLOGY

- Smooth-running wheel conveyors
- Smooth-running roller conveyors
- Smooth-running wheel curves
- Smooth-running roller curves
- Omnidirectional roller conveyors
- Baller roller table
- Accessories



**Request a component catalogue now!**



**HIGHEST SYSTEM AVAILABILITY**

**THERE FOR YOU AROUND THE CLOCK**

## **OUR SERVICES**

- 24/7 on-call and on-site service
- Checks, inspections and maintenance
- Highest availability of spare parts
- Training, courses and vocational training
- Service and repairs

**TAKE ADVANTAGE OF OUR SERVICES AND EXPERIENCE**

**+49 (0) 2662 9565-0**  
**YOUR AMI SERVICE TEAM**

# REFERENCES

## CUSTOMERS TRUST OUR SERVICES

Satisfaction, trust and cooperation in a spirit of partnership are the pillars of our corporate philosophy in working with our customers. We realise suitable intralogistics for numerous international and globally active companies from a wide range of industries. We take into account the increasing enquiries and orders of our customers worldwide.



Excerpt from our reference list

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