

AUTOMATION MANUFACTURING INTRALOGISTICS



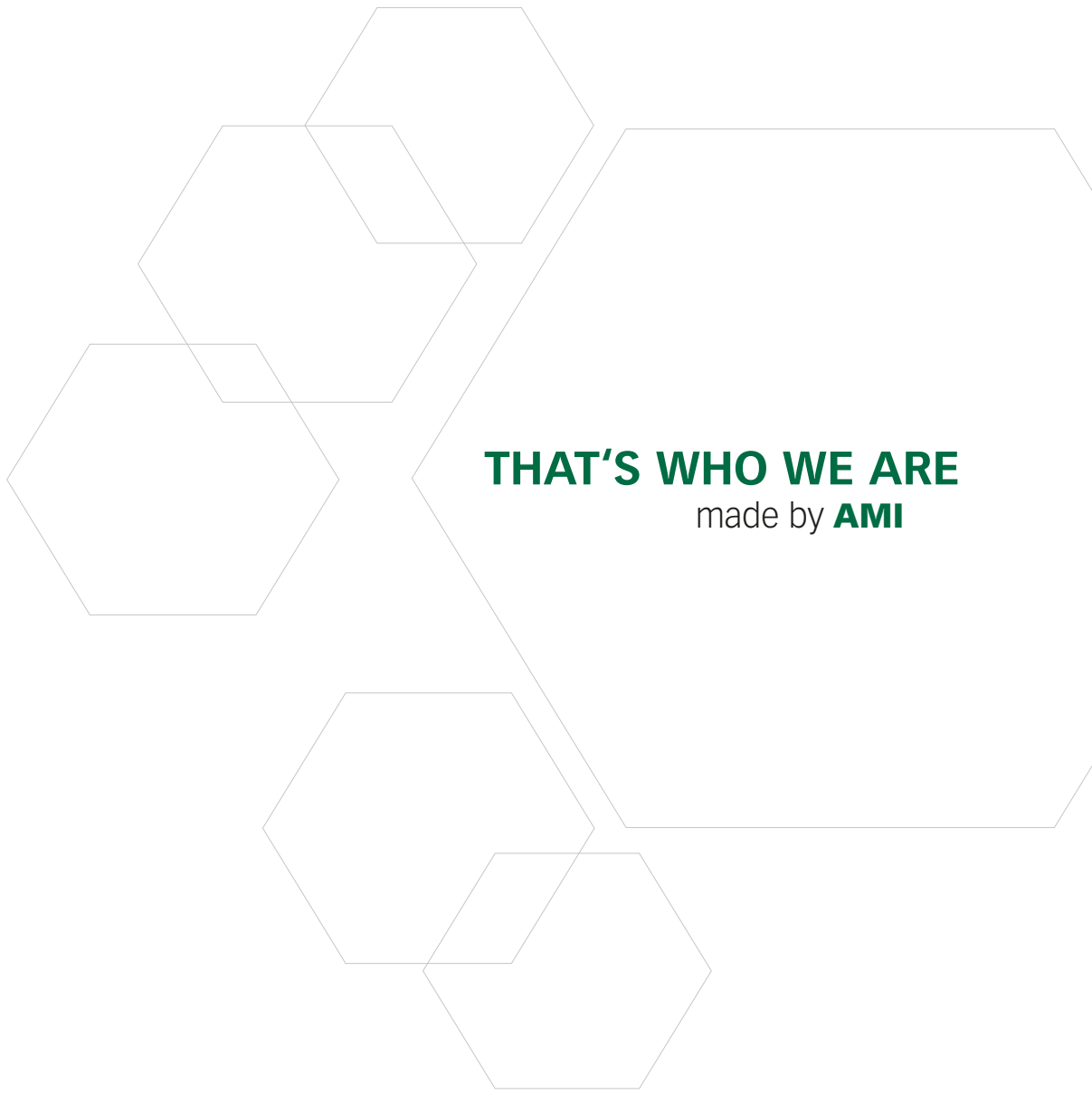
OPTIMUM THAT IS WHAT WE ARE  
KNOWN FOR  
**OPTIMISATION**



**SMART-FLEXDEPOT**  
made by **AMI**

ORDER PICKING AND WAREHOUSE AUTOMATION





**THAT'S WHO WE ARE**  
made by **AMI**

AMI develops the newest technology for intralogistics. The interplay of deep industry knowledge and technological know-how paves the way for successful automation concepts and solutions.




**HERE WE DEVELOP  
AND PRODUCE FOR  
YOU!**



AMI Conveyor and Storage Technology GmbH was founded in 1987 in Alpenrod and established its headquarters in Luckenbach in Westerwald in 2012. We employ approximately 200 staff members and have significantly expanded our development and manufacturing capacities over the past few years. We have also established a state-of-the-art machine park in our 7500

square metre factory halls, where we produce components and modules with a production depth of over 87% for automated intralogistics systems and plants. Our portfolio also includes robot-assisted units for manufacturing and assembly and fully automated production lines for a wide range of industrial applications.

A decorative graphic consisting of several white-outlined hexagons of varying sizes and orientations, arranged in a cluster on the left side of the page. One large hexagon is the central focus, containing text.

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



**SMART-FLEXDEPOT**  
made by **AMI**

# IMPROVED EFFICIENCY AND RESOURCE-OPTIMISED STORAGE USING THE SHUTTLE PRINCIPLE

3D-ANIMATION



Illustrations show standard version





# SMART-FLEXDEPOT

made by **AMI**



## SMART-FLEXDEPOT

Due to the intelligent, flexible, and automatically adjustable height configuration, we are able to achieve the currently most efficient use of warehouse volume.



The **SMART-FLEXDEPOT** solves a challenge in the healthcare industry with individualised automation solutions for your requirements. Our automatic picking system optimises and facilitates your daily workflow, saving valuable work time. This, in turn, has a positive effect on your internal workflow. We provide maximum work efficiency and customer care.





# PHARMACY MANAGEMENT

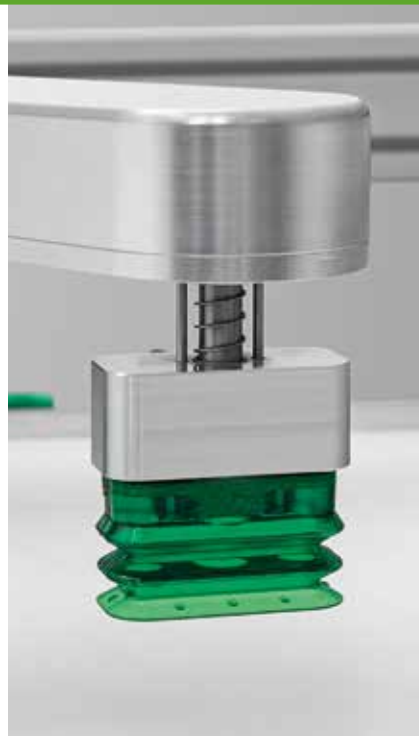
A NEW CONCEPT - FROM OPTIMUM TO MAXIMUM

The **SMART-FLEXDEPOT** solves a challenge in the healthcare industry with individualised automation solutions for your requirements. Our automatic picking system optimises and facilitates your daily workflow, saving valuable work time. This, in turn, has a positive effect on your internal workflow. We provide maximum work efficiency and customer care.



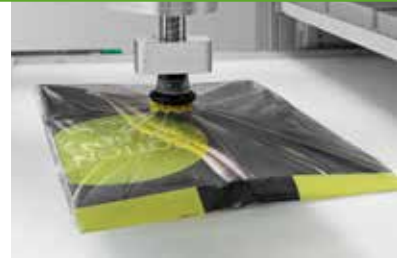
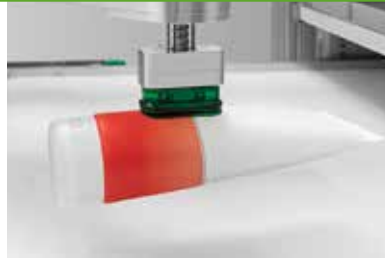
## EVERYTHING IS **UNDER CONTROL**

The **SMART-FLEXDEPOT** has a double-rotating gripper system, which allows the handling of many shapes such as round bottles, oval tubes, cans, etc. A vacuum system, appropriately designed for your packets/products provides gentle transport. The handling system is adapted to the customer's product and requirements.

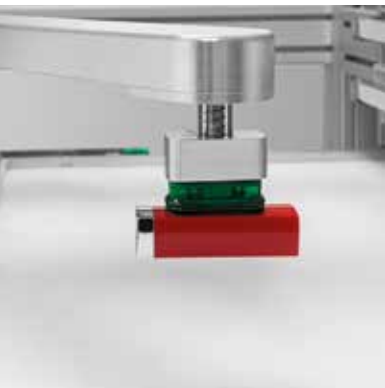
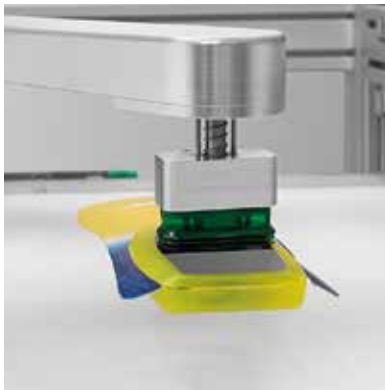
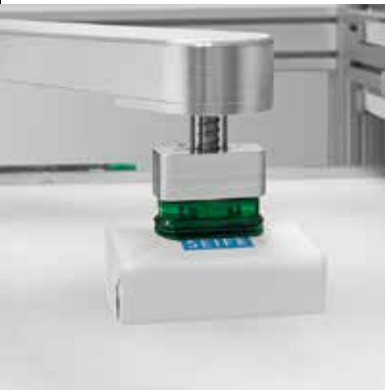


# OPTIMISED SHAPE

DEPLOYABLE INDUSTRY-WIDE



Can be used wherever angular or cylindrical products and filled bags of various sizes and weights must be stored and picked for orders.



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



# OPERATING SOFTWARE

Operating storage and retrieval functions



**SIMPLYAPP**  
Everything in view at all times



**SIMPLYSMART**  
Operating Software



The **SMART-FLEXDEPOT** operating software and app facilitate uncomplicated, fast, and safe operation of storage and retrieval functions with clearly arranged menus. The system can be easily adapted to existing systems and extended with interfaces.

## SYSTEMCONTENTS

- Fault display
- Overview of all currently pending jobs
- Optimised emergency operation mode
- Notification regarding products on their expiry date
- Batch and retrieval recording
- Storage key figures (storage depth, storage time, occupancy, ...)
- Complete packet tracking
- User friendly
- Measurement (notebook)
- Statistics
- Inventory
- Interfaces to other systems

# SMART-FLEXDEPOT

made by **AMI**



STORAGE BAND



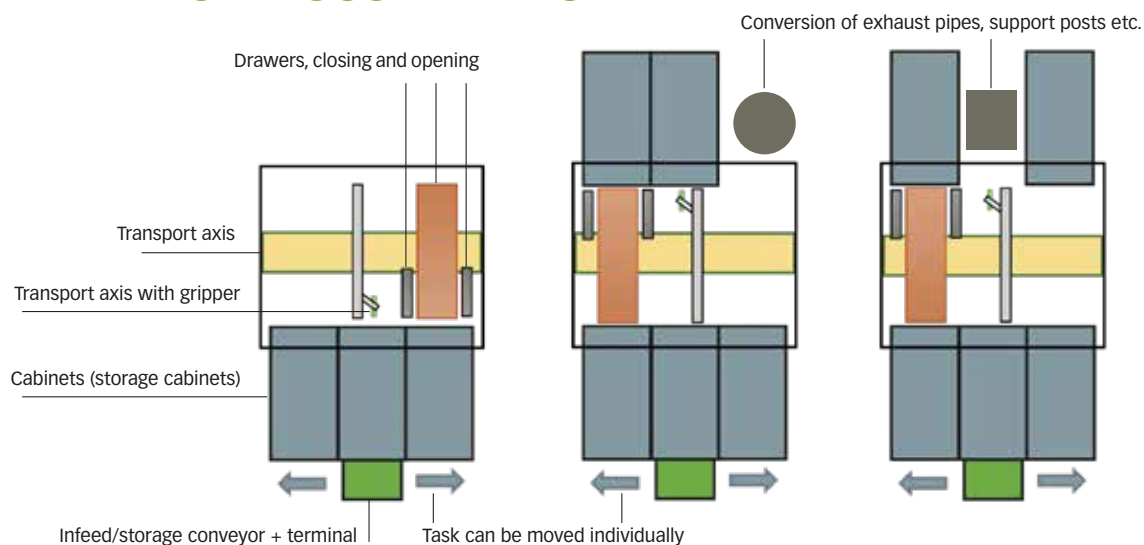
There is a large touchscreen at the storage station for the optimum operation of the **SMART-FLEXDEPOT**. It provides an overview of all essential functions. The integrated 2D scanner ensures fast recording and storing of unsorted loads.

# EASY ASSEMBLY

Modules that have been ready-made at the factory enable quick and easy assembly, whether in cellars, old buildings, or ultra-modern industrial buildings.

All machines are completely assembled at our factory before delivery and subjected to an extensive in-house dimensional inspection and functional test (FAT = Factory Acceptance Test).

## INSTALLATION POSSIBILITIES



## STANDARD COLOURS

Individual colour selections or designs in wood or aluminium-look on request.



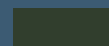
RAL 9007  
grey aluminium



RAL 9010  
pure white



RAL 3009  
oxide red



RAL 6020  
chrome oxide green

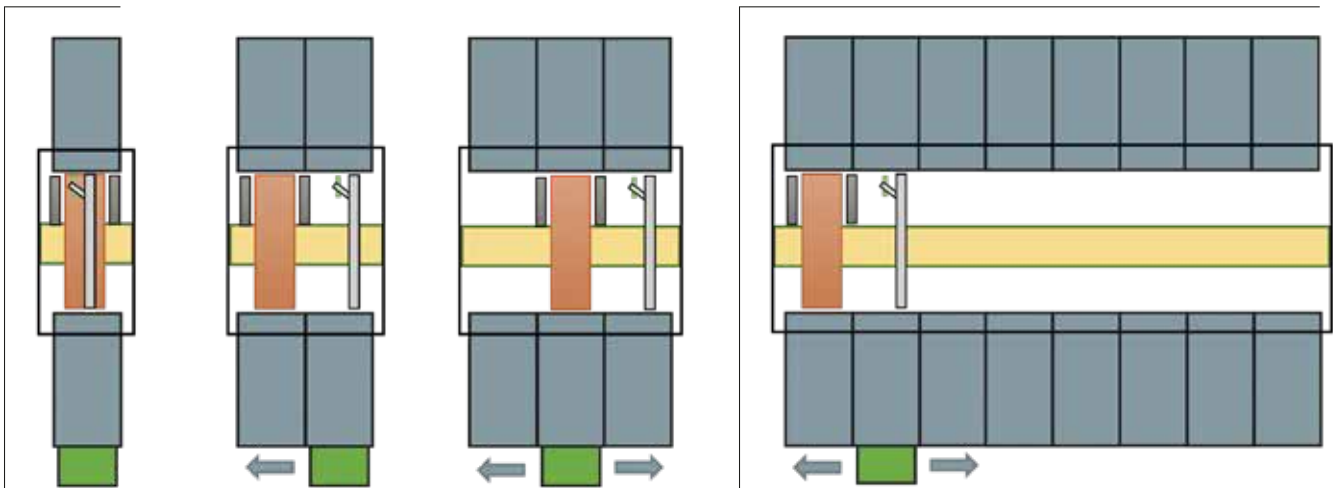


Illustrations show standard version



1 mm INCREMENTS

MODULAR DESIGN



MINIMUM dimensions:  
Width = 1.3 m wide; Length = 2.5 m; Height = 2.15 m

MAXIMUM dimensions:  
Width = 6.0 m; Length = 6.0 m; Height = 4.0 m

Thanks to its modular design, the SMART-FLEX**DEPOT** can be adapted in **1 mm** increments to your structural on-site requirements. Chimney flues, platforms, wall openings as well as exhaust pipes, supports, and beams are no challenge for us.

# OPTIMUM USE INDIVIDUALLY CUSTOMISATION



ORDER PICKING  
AND WAREHOUSE AUTOMATION

# SMART-FLEXDEPOT

made by **AMI**



Illustration show custom made version

# EFFICIENT USABLE WAREHOUSE VOLUME

Maximum storage capacity can be achieved with much smaller space requirements as a result of applying the chaotic storage system. Storage is optimised automatically. The intelligent, flexible, and automatically adjustable height configuration facilitates a very efficient usable warehouse volume. If required, orders can be completely picked and staged on load carriers, ready to go. Stored goods can also be manually retrieved easily in the event of a malfunction.

## 3D-ANIMATION



Illustration show custom made version



## SHUTTLE PRINCIPLE

Very light and rigid load carriers made of aeronautical materials can move freely within the system. Therefore, they can be loaded entirely in the storage area and then placed in appropriate slots in the warehouse. Due to the resulting short travel distances, storage and picking speeds can be increased even more. In addition, the height categories of the load carriers can be automatically adjusted to changes in the product range without user intervention.

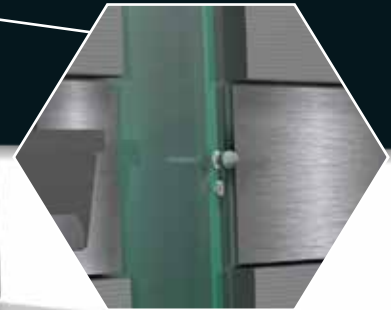
## TOUCHSCREEN

There is a large touchscreen at the storage station. It provides an overview of all essential functions. The operating software facilitates the uncomplicated, fast, and safe operation of storage and retrieval functions with clear menus.



## STORAGE CONVEYOR

Easy storage of complete deliveries without interruption. Precise measurement and logging of the warehoused goods using a 3D measurement method.



## SERVICE

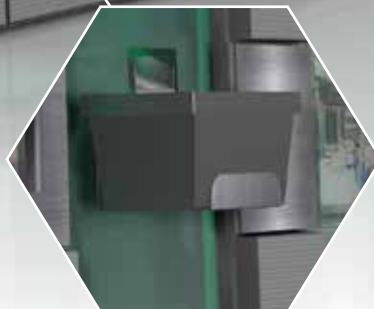
Intelligent drive and axis technologies ensure precise, low-noise technical equipment creating the highest storage density in the smallest spaces.

## ORDER PICKING

The number and positions of the output points can be planned freely. The standard storage planned is for wholesale containers. Conveyor belts, chutes, spiral conveyors, etc., can be connected to additional output points at any time.

## PERFORMANCE

High storage and retrieval performance due to shorter travel distances.



# SMART-FLEXDEPOT

made by **AMI**



Your picking machine can be manufactured with various enclosure designs. The design spectrum, depending on your individual requests, ranges from standard aluminium profile (coated as special variant) to drywall construction or wood panelling, all the way to sound, cold and heat insulated special enclosures.



All illustrations show custom made version

INDIVIDUAL, FLEXIBLE,  
**MANUFACTURED**

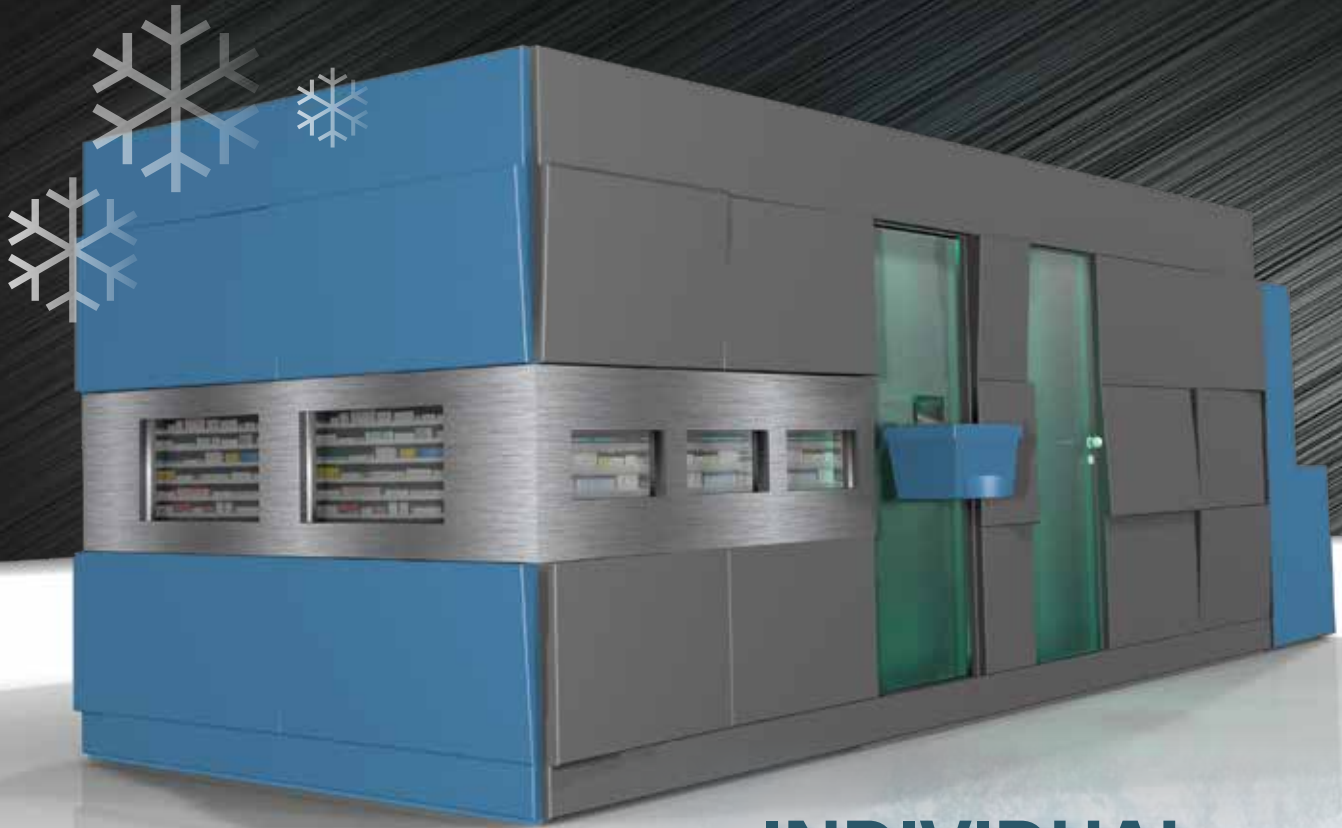


Illustration show custom made version

## INDIVIDUAL COOLING MODULES TO 0°C.

Built for use in the **low-temperature** areas!  
Our team of specialists will be happy to advise you.

Equipped with state-of-the-art air conditioning technology to ensure a constant temperature in an energy-efficient way.



All Illustrations show custom made version



# OPTIMUM SAFETY MAXIMUM CUSTOMISATION



Illustration show custom made version

## SMART-FLEX**DEPOT** made by **AMI**

When it comes to safety, we do not compromise. Our automatic order picking machine is one of the few on the market with a certified **"EMERGENCY"** braking system. This enables the safe stop of our gravity-loaded axes even if the toothed belt breaks, the motors are removed, or in the event of a power failure.

**IMPORTANT** - Only top products of the highest quality guarantee that people and machines will not be harmed in case of malfunctions, collisions, and other potentially dangerous situations. The safety of your employees and machines is our motivation to always offer the best and most reliable technology.

# INDUSTRY SPECIFIC **APPLICABLE**

Retail

Wholesale and central warehouse

Spare parts trade

Pharmacies

Industry

Hospitals

Electronics trade

Chemical industry

Pharmaceuticals & cosmetics

and many more...

*CUSTOMISED*  
**SPECIAL SOLUTIONS**

Our specialist team will be  
happy to inform you.



# SMART-FLEX**DEPOT**

made by **AMI**

Our SMART-FLEX**DEPOT** can be used wherever angular or cylindrical products and filled bags in corresponding sizes and weights are to be stored and picked.

We would be happy to implement a solution specifically tailored to your company.



**HIGHEST SYSTEM AVAILABILITY**

**THERE FOR YOU AROUND THE CLOCK**

## **OUR SERVICES**

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

**USE OUR SERVICES AND EXPERIENCE**

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

# MINIMIZING THE RISK OF DOWNTIME **MAINTENANCE CONTRACTS**

If your best solution is to have as little work as possible with maintenance and repairs, and at the same time want the best possible machine availability, you should opt for a full-service contract.

That way you place all the necessary tasks, from planning, coordination, professional implementation to complete documentation, in the professional hands of AMI service personnel and highly qualified service technicians.

Whether you require maintenance appointments, repairs, spare parts procurement or safety checks:

The **PREMIUM contract** covers all necessary maintenance measures in full.

## **BASIC**

Hotline service, available beyond the statutory warranty period.

## **CLASSIC**

Basic + Maintenance Additional

Maintenance service calls, which are guaranteed within the contractual framework. The number of specified maintenance service calls per year depends on the individual runtime performance of the machines/equipment.

## **ADVANCED**

Classic + incidental repair costs

Hourly rates of technicians are included in case of repairs.

## **PREMIUM**

Advanced + Cost for spare parts

Extension of the full legal warranty incl. costs of all spare parts needed.

# TECHNICALLY DETAILED

## STANDARD SMART-FLEXDEPOT

- MINIMUM dimensions: Width = 1.3 m wide; Length = 2.5 m; Height = 2.15 m
- MAXIMUM dimensions: Width = 6.0 m; Length = 6.0 m; Height = 4.0 m
- Special sizes:
  - Structural adjustments in dimensions and conditions can be implemented flexibly.
  - Suction unit => max. load capacity 1 kg (higher transport weights on request)
  - Retrieval and storage time depending on the transport weight
  - Storage time: => 6 – 12 seconds
  - Order picking time: => 8 – 14 seconds
- Maximum package size (angular): L: approx. 250 mm; W: approx. 150 mm; H: ca. 100 mm  
(larger sizes available on request)
- Minimum package size (angular): L: approx. 50 mm; W: approx. 25 mm; H: approx. 10 mm  
(smaller sizes available on request)
- Dimensions (round): Ø10 – 100 mm
- Ambient temperature: > +0°C -> +40°C
- Axes speed: approx. 2.5 m/s.
- Safety brakes on the functional axes
- UPS (emergency operation)

### STORAGE CAPACITY

*Sample calculation* = > with a pack size of 124 x 65 x 50 mm  
one has a storage capacity approx. 3.300 - 100.000 packs.

# OPTIMUM SYSTEM BENEFITS

## SMART-FLEX**DEPOT**

made by **AMI**

- ➔ Space marvel
- ➔ High fit accuracy
- ➔ Easy operation
- ➔ Incrementally expandable
- ➔ Maximum load
- ➔ 24/7 Service
- ➔ Automatic software updates
- ➔ Individual Design
- ➔ Top - quality materials used
- ➔ Low total weight

Our **SMART-FLEXDEPOT** is also suitable for storing and picking products with the highest safety priority level. Our specialist team will be happy to advise you.



Watches



Jewellery



Gold bars and coins

# SMART-FLEXDEPOT

made by **AMI**



**AMI Conveyor and Storage Technology GmbH**

Leystraße 27 • D-57629 Luckenbach • Germany • Fon: +49 2662 9565-0 • [info@ami-foerdertechnik.de](mailto:info@ami-foerdertechnik.de) • [www.ami-foerdertechnik.de](http://www.ami-foerdertechnik.de)

**ORDER PICKING AND WAREHOUSE AUTOMATION**