

Product Information



Sheet Metal Storage Systems for efficient processing and commissioning in industry and distribution



State-of-the-Art Sheet Metal Storage Technology: Basis for Profitability

Considerable rationalization potentials for all industries!

How can the profitability of storing and retrieval processes be improved? With storage technology made by KASTO! Shorter access times, better space utilization and fewer personnel characterize all KASTO-Storage Systems.

The third dimension of profitability

KASTO Storage Systems utilize the third dimension: The building height. Using vertical space frees up more valuable floor space for production. The trend toward smaller lot sizes and just-in-time deliveries requires more and more efforts for smaller and smaller getting order sizes. Only effective storage and commissioning systems can make this trend economically justifiable.

Analysis and planning: Utilizing KASTO's competence!

KASTO analyzes each application in depth to find the optimum solution from a wide range of KASTO products - industry-specific adaptation included! For example, by custom-made components for optimum material flow. Upon request, KASTO will provide turn-key projects: from consulting to engineering to installation (including foundation works and cladding) to start-up and completion.

Deciding factor: "Availability" - Guaranteed by KASTO-Service

A well thought out service concept secures the long-lasting performance and reliability of KASTO-Storage Systems.



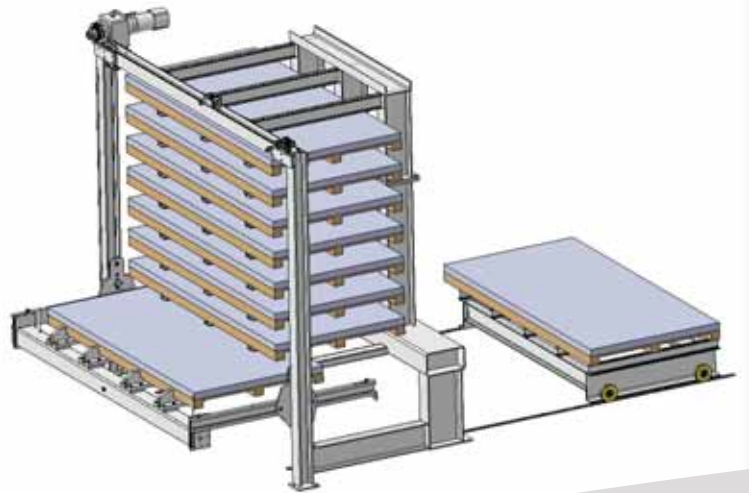
Compact Solutions for Sheet Metal: KASTOlift and UNITOWER



Special characteristics of the KASTOlift are compact design, optimum space utilization as well as operator-friendliness. Semi-automatic operation guarantees fast access to the required sheets. This makes the KASTOlift a flexible, very reasonable and economic solution for small to medium storage requirements.

KASTOlift

- Usable load 3 tons
- Small, medium, large and special sheet sizes
- Fast access to pallets and cassettes
- Crane operating elements guarantee easy and safe operation



This storage system comes single or double sided and is used for small and medium storage quantities. It is an ideal buffer storage system for sheet metal. The UNITOWER is characterized by a very compact design, optimum use of space as well as operator-friendliness. The fully automatic operation guarantees fast access to the required materials. This makes the UNITOWER a flexible, very reasonable and economic solution for moderate storage requirements.

UNITOWER

- up to 20 m system height
- up to approx. 100 locations for pallets
- Stations: Transfer, longitudinal cart, unpacking table
- Compact storage system for loads from 1.0 to 5 tons
- Storage of bar stock, pallets and sheet metal
- up to 30 picks / hour
- Rack supported buildings available
- Interface to sheet metal processing machines



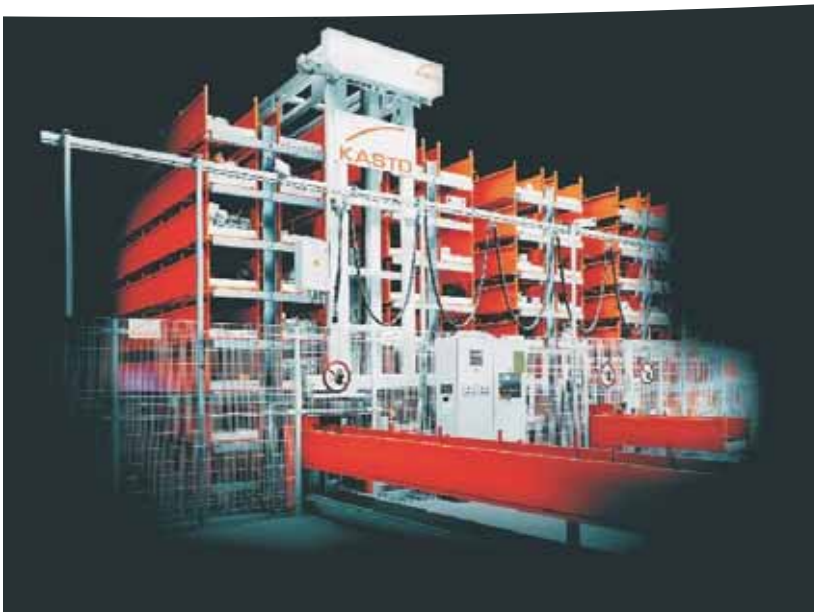
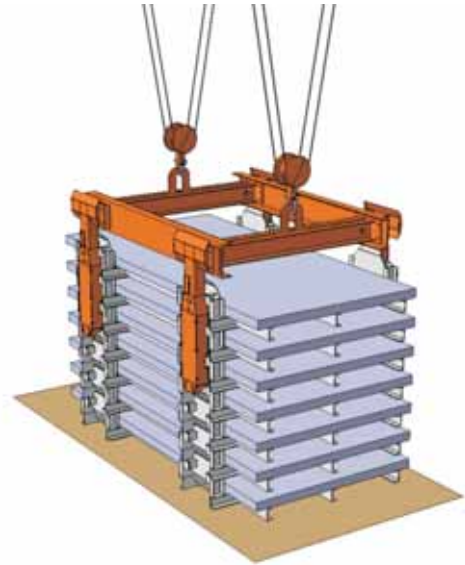
Reasonable and Straight-Forward: UNIBLOC Automation for Mid-Size Systems : UNIPORTAL



Stacking cradle systems are used for medium turnover speeds for medium to large storage quantities. They are manually or automatically operated via crane. For increased productivity, these systems allow lifting of several cradles simultaneously.

UNIBLOC

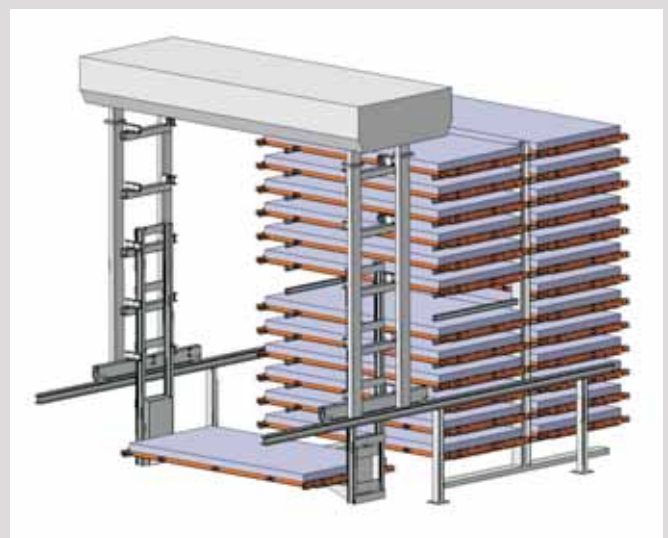
- Ideal for bar stock, sheet metal and other bulky goods up to a length of 24 m
- For all storage sizes and small to medium turnover rates
- Ideal because of easy access, small foot print and uncomplicated operation
- Up to 8 m system height
- Up to approx. 1,000 locations



For larger storage volumes, portal storage systems are used where the operating gantry crane is running on elevated rails. The internal material flow can be optimized by many possibilities of designs for loading and unloading stations in the system longitudinal and transverse direction.

UNIPORTAL

- Large variety of loading/unloading station designs make it ideal for small and medium sized operations
- Heights from 3 to 8 m
- Up to 24 picks / hour
- Loads up to 3 tons / cassette



Large and Fast : Longitudinal System UNILINE and Honeycomb System UNICOMPACT

UNILINE

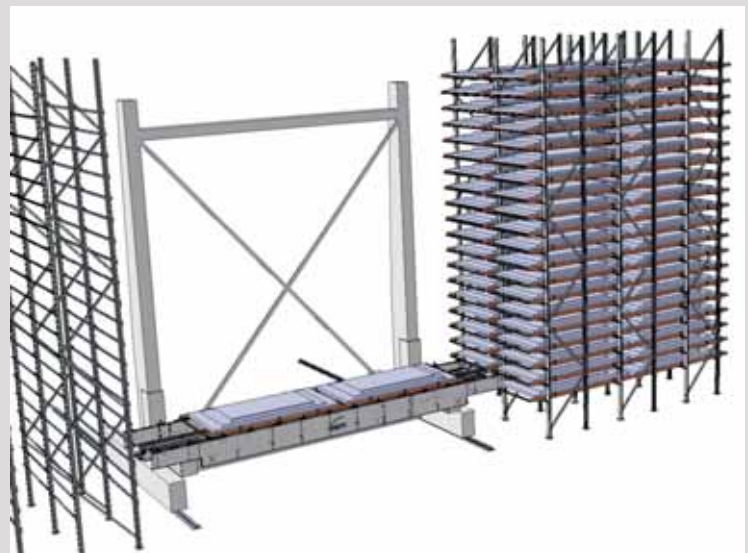
- For "single deep" storage
- From approx. 200 locations for pallets
- Pallets for all sheet sizes
- Option: KASTO random access cassette for faster processing
- Interface to sheet metal processing machines
- Possibility of later mechanical and electric extensions



Due to its design, the UNILINE-Storage System can be built up to a height of 25 m as a one-sided or double-sided system. Upon request, rack-supported silo constructions with roof and wall cladding are available. Along side of the system, loading and unloading stations can be installed to fill or unload sheet metal processing machines.

UNICOMPACT

- System heights from 4 to 26 m
- Cassettes for 1 to 8 tons of usable load
- Storage volume approx. 500 to 4,000 cassettes
- Up to 60 picks / hour
- Integrated scales (option)
- Integrated logistics solution by interfacing with the Host-system of the user
- For single or double-deep storage



Demanding performance requirements are met by Honeycomb Systems with their fast speeds and high storage density. The operating crane usually travels simultaneously up and down and horizontally between two shelf blocks to store and/or to retrieve cassettes from / to machines or order filling stations.



Streamlining Order Filling and Machine Integration



Fully automatic sheet metal commissioning

Sheet metal weight	max. 360 kg per sheet
Sheet metal thickness	0.5 20 mm (steel sheets) 0.5 30 mm (non-ferrous sheets)
Sheet dimensions	small, medium and large sizes
Material qualities	hot rolled sheet (black sheet), sheet steel, oiled/not oiled stainless steel brass, aluminum
Commissioning capacity	up to 5 individual sheets per minute

The fully automatic, computer-controlled commissioning unit adjusts automatically to different sheet sizes and sheet qualities. Additional equipment like flexible, adjustable fanning magnets for oiled sheets and airblasts to remove thin paper and cartons between the sheets allow a fully automatic, computer-controlled commissioning.



Interface to sheet metal processing machines

- Punching machines
- Laser-cutting machines with laser aided pallets
- Water jet cutting machines
- Plate sawing machines for long cuts

The Inventory Control Computer can, upon request, directly transmit CNC-programs (including Optimization Software, if applicable) to the sheet metal processing machines.

The efficient use of sheet and plate working machines requires economic, often fully-automatic loading and unloading sequences. The removal station brings the raw material directly to the machine. Finished parts and remnant plates are stacked on separate pallets after the machining operation and are moved back into the storage system.

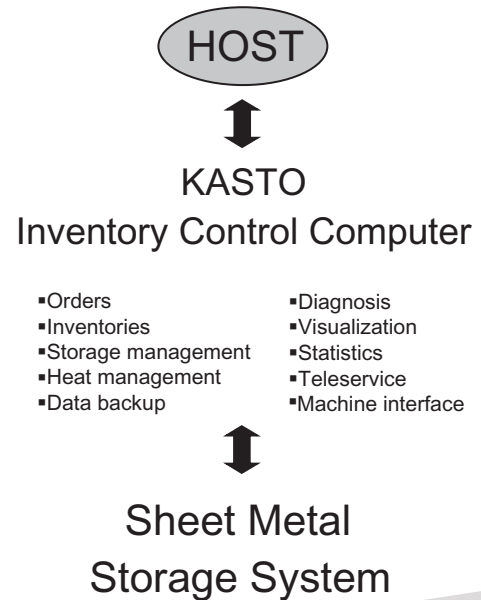


Indispensable: Material and Order Management as well as Service



KASTO not only develops storage systems and saws, but experienced KASTO-software engineers also develop the software for complex logistical problems. Main software modules are the storage location management, the material master database and order management. A customer's manufacturing control or order processing software is linked with the inventory control computer via the Host Interface.

KASTO develops, based on proven industrial components, custom software in-house: Automatic order processing, material master records and inventory control, Host interface (for example to SAP/R3), remote modem diagnosis and teleservice



Maintenance Contract:

Periodic maintenance of your machine / system by our specially trained technicians

Extended Availability:

Prioritized phone diagnosis and spare part supply

Teleservice Contract:

Worldwide remote diagnosis via modem or internet connection

Service without compromises

Extensive and competent after-sales service with the appropriate support activities are a central component for KASTO to guarantee a long-term partnership with our customers. The combined know-how of our service technicians is integrated into a powerful team in our service center. They provide fast, professional help with no red-tape.

