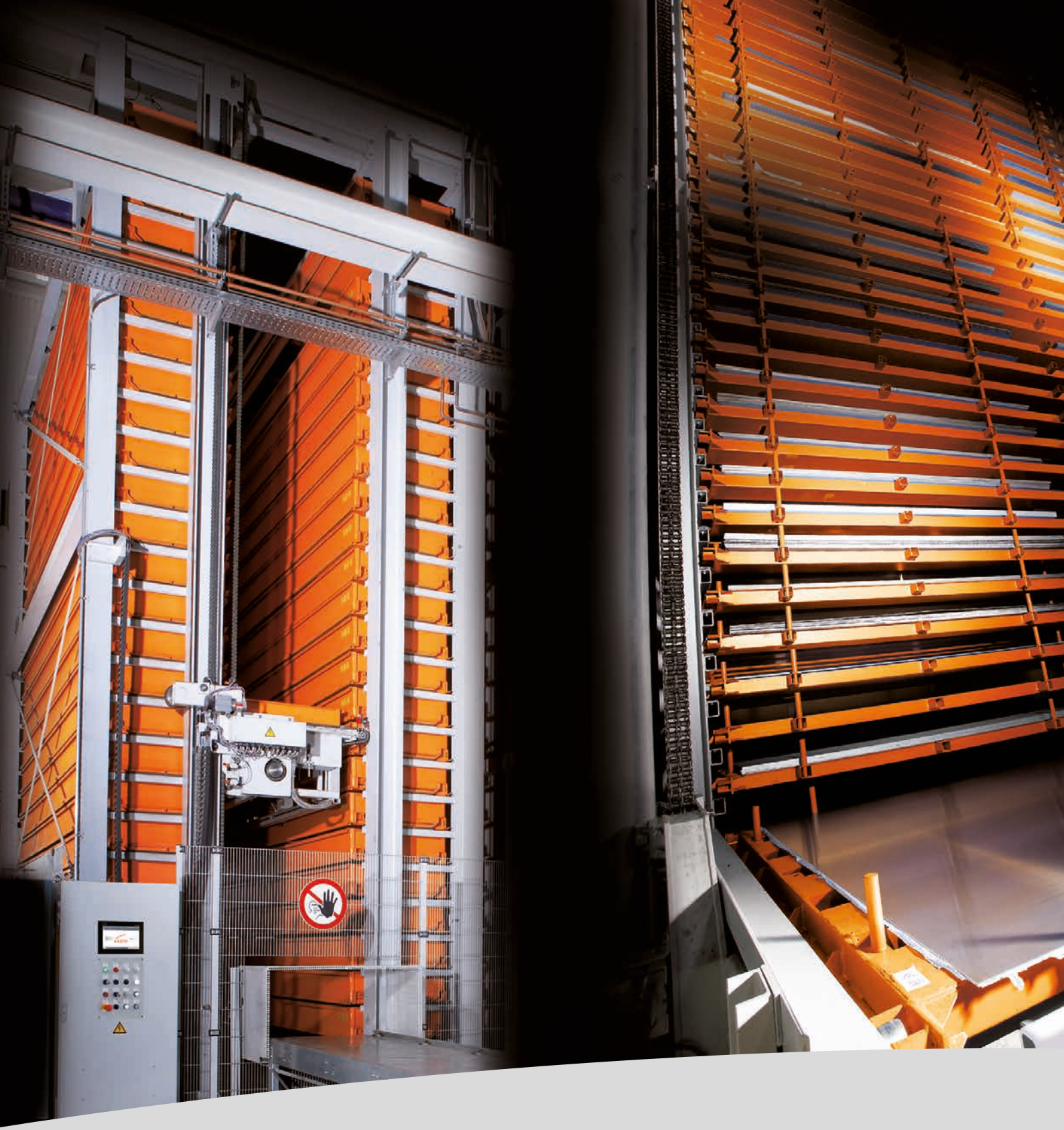


# Tower storage systems

## Space-saving storage solution for bar stock, sheet metal, pallets and much more

www.kasto.com

Saws. Storage. And More. KASTO®

# KASTO*ecostore* for bar stock and sheet metal

## Compact and standardised storage

### Flexible division - up to 8 m system height

| Technical Data | | Bar stock | Sheet metal |
|---|---|---|---|
| Storage location dimensions (W x L) | mm | 840 x 6500 | 1,524 x 3,048 / 1,524 x 4,064 |
| Load per cassette / pallet | to | 1.2 / 3.0 | 1.2 / 3.0 |
| Cassette loading heights | mm | 105 / 145 / 215 / 255 / 355 / 455 / 800 | – |
| Pallet loading heights | mm | 200 / 350 / 550 / 800 / 1,000 | 50 / 90 / 130 / 200 / > 200 – 950* |
| System height | mm | 3,000 – 8,000 | 3,000 – 8,000 |
| Lift / pull speeds | m/min | 12 / 6 | 12 / 6 |
| **Space requirement standard version single-sided version** | | | |
| Length | mm | approx. 7,690 | approx. 4,120 / 5,120 |
| Width | mm | approx. 2,600 | approx. 3,425 |
| **Space requirement automatic version with extended safety device (single-sided version)** | | | |
| Length | mm | approx. 8,080 | approx. 4,740 / 5,740 |
| Width | mm | approx. 3,480 | approx. 4,275 |
| **Space requirement automatic version with extended safety device (double-sided version)** | | | |
| Length | mm | approx. 8,130 | – |
| Width | mm | approx. 5,045 | – |

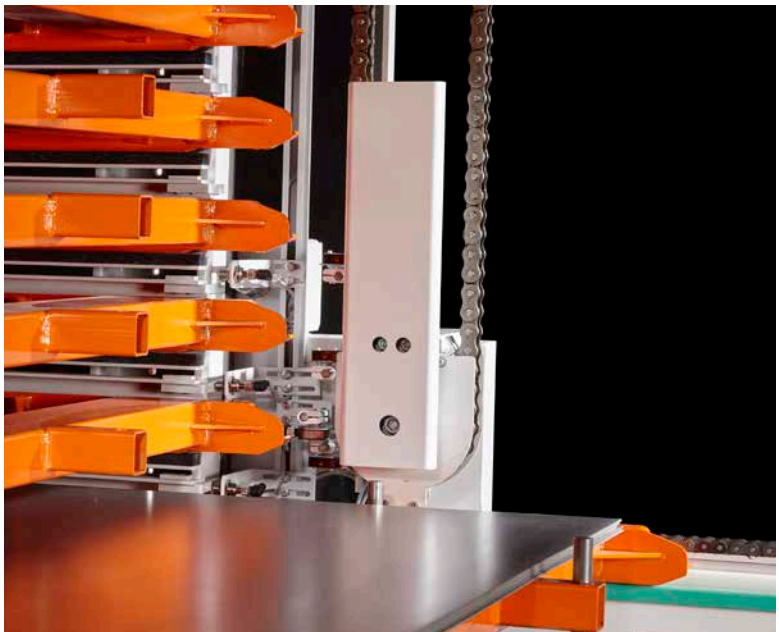
* in a 50 mm grid, max. 3 different loading heights possible

## Your benefits at a glance

- Time saving through direct access without additional lifting equipment
- Height-adjustable, modular pallet supports for different loading heights
- A comprehensive safety concept prevents malfunctions and prevents costly downtimes
- Low space requirement through consistent use of height
- Can be installed close to machine
- Up to three different loading heights to choose from

KASTO *ProControl* storage control with compartment preselection and acknowledgement key

Stationary lifting gear with synchronous driveshaft



Lifting beam and pallet in sheet metal format with chain hoist and loading height control and steel construction with sliding support, pallet with socket pins (option).

Storage aid for load release (option)

# KASTO*ecostore* for bar stock

## Use storage space efficiently

The standardised storage system is suitable for all applications with a wide variety of materials that can be stored as bar stock or sheet metal. The height-optimised compartment division enables high storage density in the most confined spaces. This leads to better organisation, cleanliness and safety. The automated tower storage system is available in single and double-sided versions. The system height ranges from 3 to 8 metres and can optionally be equipped with cassettes for storing bar stock or flat pallets for storing other stored goods such as boxes, pallets, tools, etc. Rods, pipes, profiles and solid materials up to 6.5 metres in length can be stocked. Up to three different height divisions can be defined for each storage system.

The load handling attachments each have a load capacity of up to 3 tons, are stored automatically and retrieved and brought to the optimum loading and unloading height with a hoist. This means that no additional lifting equipment, such as a forklift, is required to retrieve the cassette. This ensures short access times and an ergonomic way of working.

| Technical Data | | KASTO*ecostore* for bar stock |
|---|---|---|
| Storage location dimensions (W x L) | mm | 840 x 6500 |
| Load per cassette / pallet | mm | 1.2 / 3.0 |
| Cassette loading heights | mm | 105 / 145 / 215 / 255 / 355 / 455 / 800 |
| System height | mm | 3,000 – 8,000 |

# KASTO*ecostore* for sheet metal

## Options:

- Socket pins for pallets to prevent movement of the sheet metal package
- Storage aid with lifting bolts for unpacking sheet metal and for better load handling with a forklift or crane
- Automatic control with safety device
- Extension of the standard control to include item and inventory management
- Station cart can be moved manually for loading/ unloading the storage system from the rear
- Side handles for C-profile cassettes to adjust the loading height for bar stock

| Technical Data | | KASTO*ecostore* for sheet metal |
|---|---|---|
| Storage location dimensions (W x L) | mm | 1,524 x 3,048 / 1,524 x 4,064 |
| Load per cassette / pallet | mm | 1.2 / 3.0 |
| Pallet loading heights | mm | 50 / 90 / 130 / 200 / > 200 – 950* |
| System height | mm | 3,000 – 8,000 |

* in a 50 mm grid, max. 3 different loading heights possible

# *UNITOWER* tower storage system

## The storage system for more efficiency

UNITOWER offers significant space, time and handling advantages over conventional storage options such as shelves, floor storage or stacking cradles. The system is available in single- or double-sided design, whereby the single tower can be expanded to a double tower at a later time. The *UNITOWER* is suitable for bar materials or profiles as well as for sheet metal, panels, Euro pallets and boxes that can be loaded with all types of goods. This system also shows its strengths as a lone-standing solution, customer-specific design or with the customer's own transport frames. Areas of application for *UNITOWER* are e.g. buffer storage in production or small and medium-sized storage quantities in steel and other trading businesses. However, the *UNITOWER* can also optimise material flow in metalworking shops, window

| Technical Data | | Bar stock | Sheet metal |
|---|---|---|---|
| Max loading capacity | t | 1 - 5 | 1 - 5 |
| Max system height | m | up to 24 | up to 24 |
| Usable storage length | mm | 3,400 - 14,600 | 2,000 – 8,000 |
| Usable storage width | mm | 600 / 680 / 840 / 920 / 1,240 | 1,000 / 1,250 / 1,500 / 2,000 |
| Lifting speed | m/ min | 14 - 32 | 14 - 32 |
| Self-supporting | | Option | Option |
| Automatic control | | Standard | Standard |
| Material inventory management | | Option | Option |
| Warehouse Management System | | Option | Option |
| Connection to host systems | | Option | Option |
| (special dimensions on request) | | | |

construction companies, etc. Since an individual design with selectable storage lengths and heights permits adaptation to any material flow concept, consultation with KASTO planning experts is recommended. In contrast to vertical carousel systems, it is not the entire storage volume that is moved, but only the desired storage space.

## Area gain through building cladding and pit solution

*UNITOWER* can not only be fitted into the existing hall as required, but also simply covered with roof and wall, set up on the outside to save space or set up through the roof in the hall. Ground pit solutions can also be implemented to expand storage capacity. This allows full use of the possible construction height. In addition, valuable hall space can be made available for production at low cost and the structure of the system has less of an impact on the internal flow of materials during the construction phase. The self-supporting nature of the *UNITOWER* saves additional space and taxes: Cladding the steel construction with sheet metal to make it weatherproof creates a structure that can be written off favourably for tax purposes.

*UNITOWER* in self-supporting design

*UNITOWER* in self-supporting design

*UNITOWER* in self-supporting design

*UNITOWER* with in-house cladding to protect stored goods

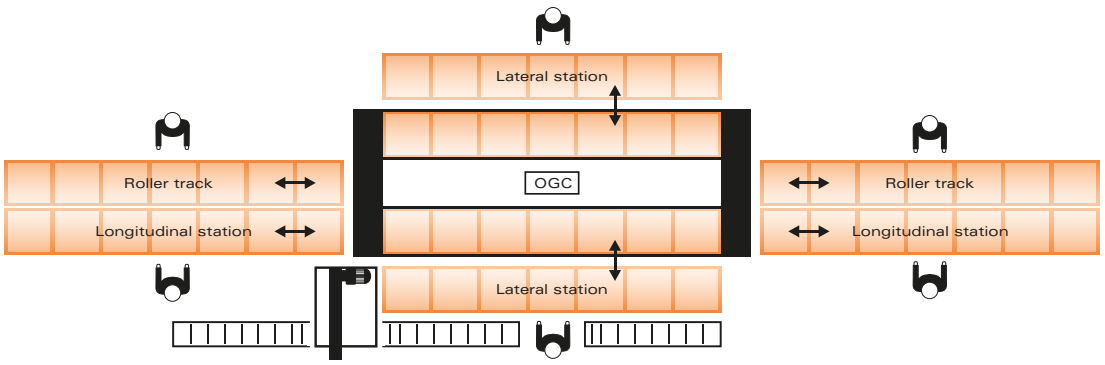
# *UNITOWER* for bar stock

## Compact, fast, versatile

The KASTO UNITOWER bar storage system offers easy operation and quick provision of loads, depending on customer requirements, up to 5 tons per cassette. The total capacity of the double-tower version is up to 500 tons. The self-supporting bar goods cassettes can be divided into several individual compartments, but load carriers can also accommodate pallets and crates. By installing several retrieval and storage stations, it is possible to work independently at the same time. The KASTO control allows inventory management by metre, kilogram or number of pieces with material identification numbers. Connection to a warehouse management or host computer is easy.

### Stations for every application

For individual storage and retrieval, both transverse stations on the broad sides and longitudinal stations on the front sides of the *UNITOWER* can be implemented, and different floor levels are also possible. The connection or integration of a KASTO sawing machine is also possible.



## Options

- Integrated weighing device, with weight-managed material on request with connection to the automatic inventory management
- Cassettes lined with plastic, for example for damage-free storage of aluminium or plastic profiles
- Material lifting unit as an alternative to loading and unloading with loops or for forklift operation
- Integration of barcode reader
- Connection of two tower storage systems possible
- Installation of a crane system for material loading/unloading

Quer-Station mit Kettenförderer
Lateral station with chain conveyor

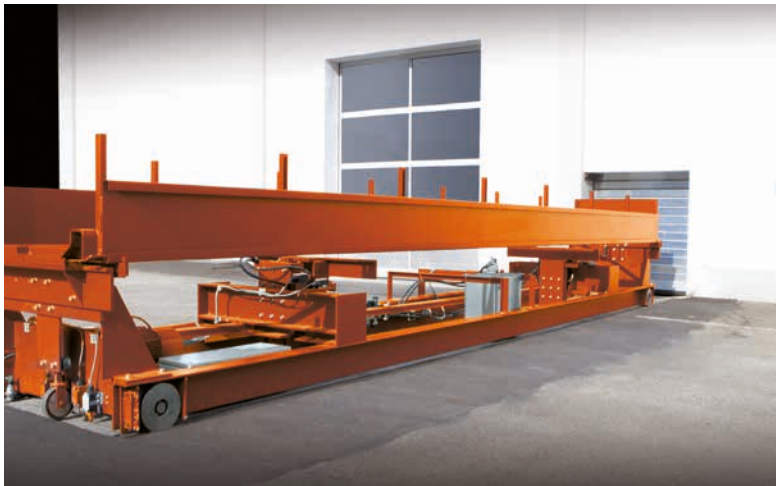
Quer-Station mit Wagen, beidseitig ausfahrbar
Lateral station with carriage, can be moved out on both sides

Quer-Station mit Kettenförderer und Aushub
Lateral station with chain conveyor with push-up device

Quer-Station mit Wagen, durchfahrend mit Abweisdach und Beladekran
Lateral station with carriage, travelling through and with roof loading crane

Längs-Station mit Wagen, durch die Hallenwand fahrend, mit Rolltorverriegelung (Sonderausstattung)
Longitudinal station carriage travelling through the wall of the building, with roll door lock (special option)

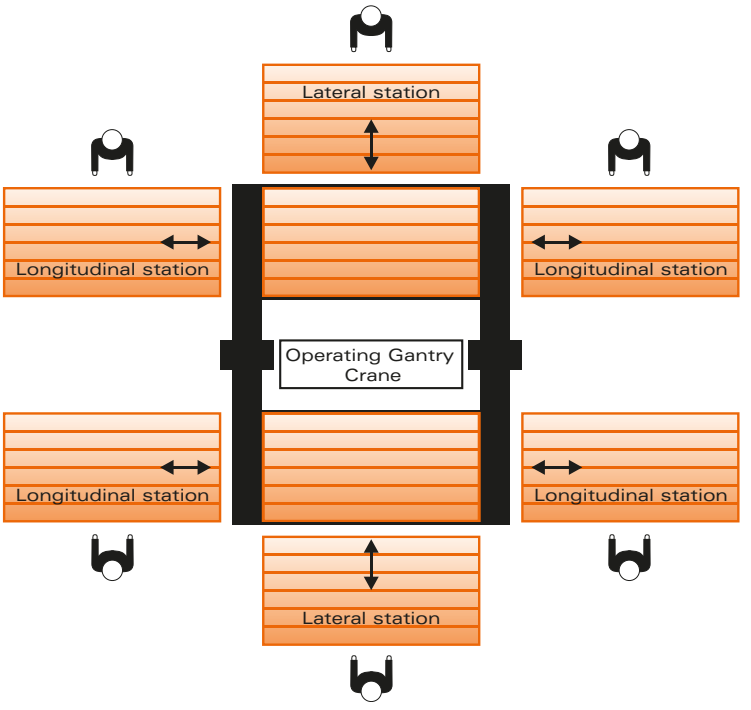
Quer-Station mit Wagen mit eingezogenem offenen Langgutablage
Lateral station carriage with cassette open at front



# *UNITOWER* for sheet metal formats

## High volume, little space

The KASTO UNITOWER B sheet metal storage system is optimally designed for the requirements of sheet metal processing and can be used for different loading heights. Stations are available for all warehouse sides. The storage station can be supplemented with a storage rack for free lifting of the goods to be loaded. Unpacking tables are also available.



# Stations and options for every application

## Stations:

Transverse and longitudinal stations on all sides and even on different floors enable an individual concept for designing storage and retrieval. The connection or integration of sheet metal processing machines is also possible.

## Options:

In addition to the options listed for bar goods, the following are also available:

- Rotating device
- Conveyor device

*UNITOWER B*, extended to two operating gantry cranes.

Longitudinal station carriage with free lifting device

Longitudinal station wagon with free lifting device

Vacuum device

# KASTO - Saws. Storing. And More.

## Excellence in all areas

For nearly 180 years, KASTO stands for innovation and exceptional quality. In addition to metal saws and automated storage systems for long goods and sheet metal, KASTO offers customised material logistics solutions. Our range of products is complemented by cutting-edge digital software solutions and reliable KASTO services. KASTO has become the global leader in sawing and storage of metal through their dedication to advancing technology and constantly improving machine concepts.

### Sawing machines from KASTO

KASTO offers a wide range of saws, from saws for the machine shop to fully automatic high performance sawing machines including hacksaws, bandsaws and circular saws. www.kasto.com/saws

### Storage solutions from KASTO

KASTO's storage systems are known for their efficient use of space, easy accessibility, and excellent storage overview. www.kasto.com/storage

### KASTO-Service

Rapid availability of spare parts and individual customer support are an integral component of KASTO-Service. KASTO*retrofit* is a service to modify existing systems to meet current demands. www.kasto.com/service

### KASTO *SmartSolutions*

KASTO *pro*vides digital automation solutions that enhance the efficiency, flexibility, and cost-effectiveness of metal processing and storage. www.kasto.com/smart

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