

UNITOWER: Tower Storage System – A Space-Saving Storage Solution for Bar Stock, Sheet Metal, Pallets and much more



UNITOWER: Large Storage Capacity on Small Foot Print

The storage system for more efficiency

The *UNITOWER* offers significant space, time and handling advantages compared to conventional storage solutions like racks, floor storage or stacking cradles. The system is available in single- or double-sided design, where the single-sided tower can be extended to a double-sided tower at a later time. The *UNITOWER* is suitable to store bars or extrusions as well as sheet metal, plates, Euro pallets or boxes loaded with all different kinds of materials. It can be tailored to customer-specific applications or used as an island solution. Applications for the *UNITOWER* range from buffer storage systems in manufacturing to small to mid size storage solutions in distribution and warehousing. The *UNITOWER* optimizes material flow in job shops as well as for window manufacturers or similar industries! Since it can be adapted to different material flow concepts by choosing individual storage heights and lengths, a consultation with KASTO's planning experts is extremely important.

Contrary to vertical carousels, only the required cassette is moved in the *UNITOWER* and not the entire storage volume. In addition, designing the *UNITOWER* as a rack supported building (steel contraction clad with siding and roof) does not only save space; it might have tax advantages as well since the building becomes an integral part of the storage tower.





The EasyControl

The fully automatic system control EasyControl for the *UNITOWER*, is based on a no hard-drive industrial PC with colour display and touch screen operation.

Functions such as location management or cassette management as well as graphical system visualization, system diagnosis and automatic order control are standard.

An important feature is the uniform and very easy order entry, order tracking, booking as well as the manual operation. Training is made much easier with simple graphical symbols, operation and return message directly via touch screen and additional features such as online language switch. A vast variety of options is available to increase the performance and update the hardware of the EasyControl – even at later date.

- Material and inventory management (number of pieces, weight, surface area)
- Heat management
- Automatic data backup via USB stick
- Host coupling to interface with higher-ranking MRP systems
- Data export/import, e.g. to Microsoft EXCEL via USB stick (master record data)
- Interface to processing machines
- Bar-code scanner for order entry

UNITOWER for Bar Stock

Compact, fast, versatile

The KASTO Storage System *UNITOWER* offers easy operation and fast supply of loads of up to 5 tons per cassette depending on the customer's requirements. The double tower version can store up to a max. of 500 tons. The self-carrying cassettes for bar stock can be divided into several compartments, slave pallets can carry boxes and containers. Integrating several storage and removal stations allow simultaneous and independent operation. The KASTO control uses material identification numbers to manage the inventory in length, weight or pieces. A connection to an inventory management or host computer is possible without problems.

UNITOWER for bar stock, double tower





Lateral station - cassette conveyor



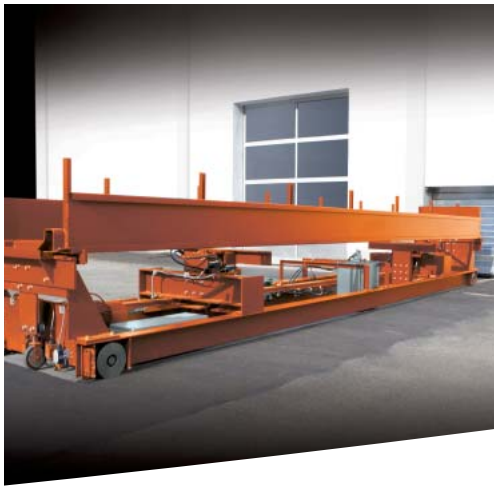
Lateral station - carriage, can be moved out on both sides



Longitudinal station - roller track



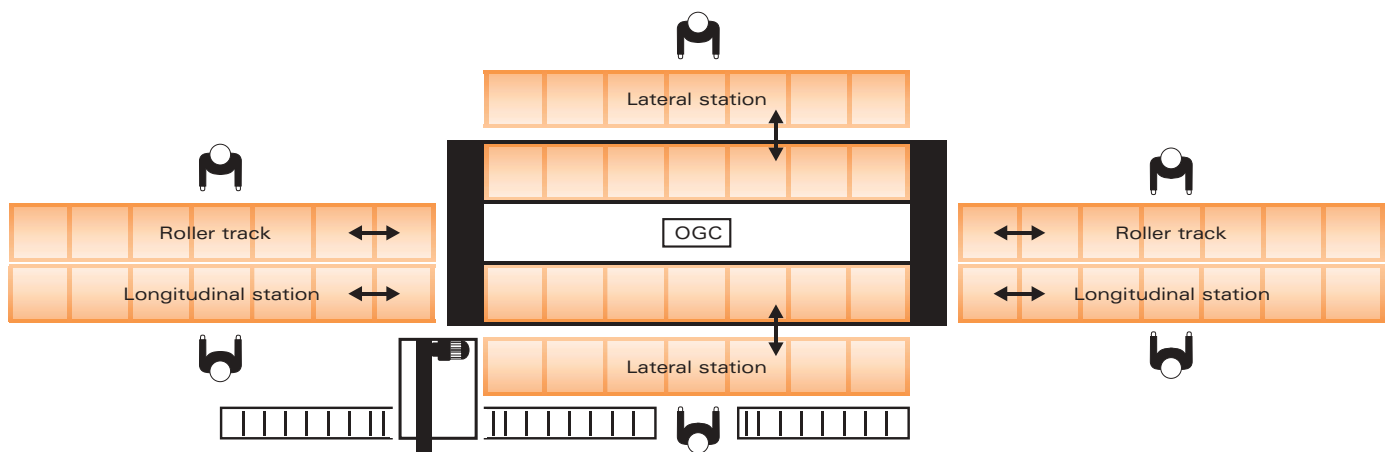
Lateral Station in telescopic design



Longitudinal station - carriage travelling through the wall of the building, with roll door lock



Lateral Station - carriage with a cassette open at front



For individual applications, lateral stations at the wide sides as well as longitudinal stations at the front of the *UNITOWER* are possible as well as different floor levels. The connection or integration of a KASTO saw is also possible.

UNITOWER for Bar Stock

Completely safe in accordance with accident prevention regulations and CE

The *UNITOWER* went through intensive safety checks and complies with the requirements and Accident Prevention Regulations of the EU guidelines (CE). An overload protection does not allow to store cassettes with too much weight. In automatic operation, safety fences in the back and at the sides of the storage tower as well as with light barriers at the loading/unloading side protect the operator.

Space Saving:
Rack-supported building design or pit solution

The *UNITOWER* can be installed in an existing building, outside of a building with a roof and walls as well as by literally “going through the roof” in order to save space. To further increase the storage capacity, pit solutions are another possibility to maximize the system’s height, making more valuable production space available. The installation hardly effects the internal material flow during the construction phase.

UNITOWER in rack-supported design





Lateral station – chain conveyor with push-up device



Connection of two *UNITOWER* systems to a tube laser machine



UNITOWER with cladding to protect the material



UNITOWER with a storage length of 15 m



Lateral Station – carriage, travelling through building wall, with roof loading crane



Connection of *UNITOWER* to a sawing machine by means of infeed roller conveyor

Facts of *UNITOWER*

- Storage of bar stock, pallets, boxes, fixtures and transportation cradles
- Loading/unloading station front and/or sideways as well as on different levels
- Infeed to a sawing machine by means of connected roller conveyor
- Various storage location dimensions possible

Options

- Integrated weighing device, upon request, connection to automatic inventory management for weight-managed material
- Plastic-lined cassettes to protect for example aluminium or plastic profiles.
- Material lifting units as an alternative for loading and unloading with loops or forklifts.
- Integration of bar-code reader
- Connection of two tower systems possible
- Installation of a crane to load and unload material

UNITOWER B for Sheet Metal

High volume, little space

The KASTO sheet metal storage system *UNITOWER B* is optimally designed for sheet metal applications and can be used for different loading heights. Stations are available for all sides of the systems. Unpacking tables as well as loading tables to lift the material from the pallet can be added to the storage station.

Options

Additionally, the *UNITOWER* offers the following options:

- Rotating device
- Conveyor device

UNITOWER for sheet metal





UNITOWER B, expanded to two operating gantry cranes



Pallet with socket pins



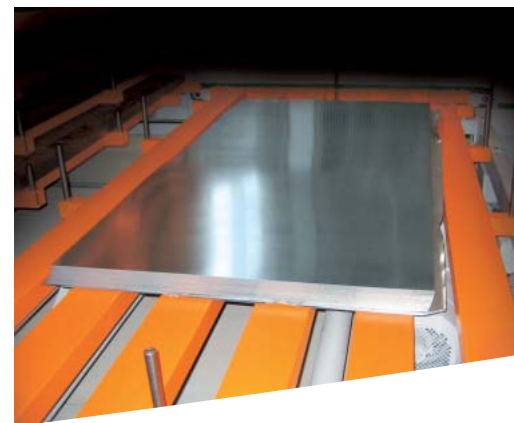
Lateral station - carriage with lifting device



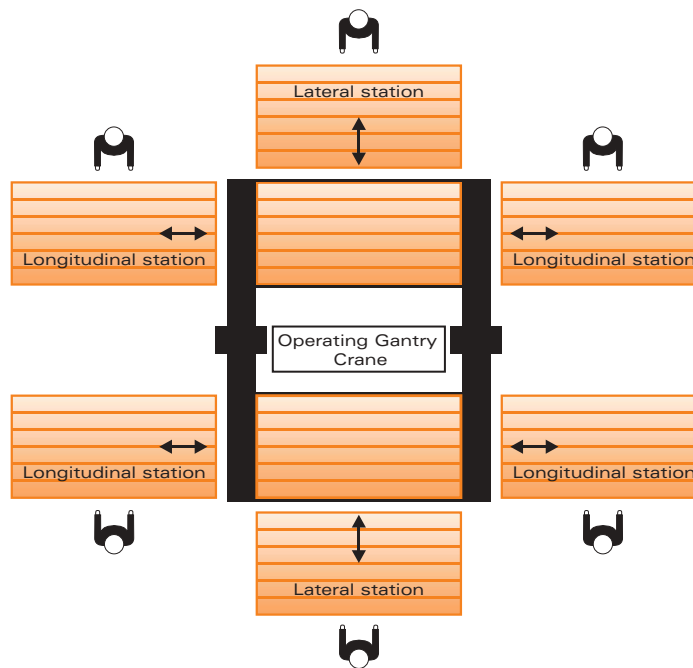
Longitudinal station - carriage with lifting device



Vacuum device



System pallet for loading sheet metal packs of different sizes with a carrying capacity of 3 to (1,5 x 3 m), 6 floor bars



Lateral and longitudinal stations at all sides and even at different levels allow an individual design for loading and unloading. The connection to or integration of sheet metal processing machines is also possible.

More Safety with Less Effort: Chain Hoist at the *UNITOWER*

Low maintenance with
high reliability

KASTO uses for all storage systems pre-tensioned, virtually maintenance-free precision roller chains. Compared to systems using steel cables, the technically advanced chain design guarantees much lower maintenance costs. Furthermore, the compact storage system *UNITOWER* utilizes power more effectively, since – compared with vertical carousel systems – only a single, required cassette is moved and not the entire storage amount.

Robust chain hoist of the *UNITOWER B*-Operating Gantry Crane



Technical Data	UNITOWER	UNITOWER B
Max. load capacity per location	1 - 5 t	1 - 5 t
Max. system height	bis 25 m	bis 25 m
Usable storage length	3.400 - 14.600 mm	2.000 - 8.000 mm
Usable storage width	600/680/840/920/1240 mm	1000/1250/1500/2000 mm
Lifting speed	14 - 32 m/min	14 - 32 m/min
Rack-supported building	Option	Option
Automatic control	Standard	Standard
Material inventory management	Option	Option
Inventory control computer	Option	Option
Connection to HOST computer	Option	Option
(Special dimensions upon request)		

Service is the deciding factor: High availability for each *UNITOWER*

Your production is protected by the KASTO-Service Concept

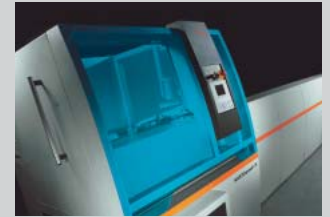
Permanent performance and the well-known reliability of the KASTO-Storage Systems do not come by accident. But are the result of a thought-through Service Concept. Very often, problems are solved by the operator after a telephone consultation. Usually, spare parts are shipped the same day. If necessary, courier or next-day air services are used. For competent on-site help, well-equipped service cars with specially trained service technicians are ready to go. In addition to the KASTO main factory in Achern, Service Technicians are also stationed in the KASTO-facility in Schalkau, Thuringia, as well as in the Sales and Service Center in Krefeld. This ensures that every location in Germany can be reached within a few hours. The sales partners abroad store a large variety of spare parts and have KASTO trained Service Technicians available.

The Complete KASTO Program: Economic Sawing and Storing of Metal

Expertise right
down the line.

For over 160 years, KASTO has been recognized for quality and innovation, and offers a complete range of metal cutting saws, as well as storage and retrieval systems. Thanks to an ongoing development of new technologies and constant optimization process of machine concepts, KASTO has achieved the status of market leader in sawing and storing of metals.

KASTO's Sawing Machines



From the basic hacksaw to the high-performance automatic bandsaw capable of economically processing bar stock, blocks or plates of all grades, KASTO has the best solution for every challenge: Universal bandsaws and circular saws for light and medium applications, hacksaws employing the pushing-arching-cutting motion originated by KASTO, and production bandsaws and circular saws designed to cut medium to difficult materials.

KASTO's Storage Systems



Rapid access, optimum space utilization, clear and accurate view of stored inventory—KASTO storage systems' excellent features. And there's more! Fully automatic sawing centers, cantilever bar and sheet metal storage systems or cassette storage and commissioning systems, combined sawing and storage systems with integrated inventory control computers. As a one-source supplier, KASTO delivers the complete system, both hardware and software.

KASTO's Service



KASTO's comprehensive service program includes everything: from commissioning and training to maintenance support, service contracts, readily available spare parts and on-site service. KASTO's service incorporates individual consulting and immediate support with well-qualified teleservice. And of course, KASTO service is available worldwide.

Your KASTO Partner

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