

System Program

KASTO *UNIBLOC*: Stacking Cradle Systems for every demand.



Ahead of the competition by leaps and bounds. *UNIBLOC U* for multiple lifts.

Profitability and efficiency stored.

When highly dynamic and fully automatic bar storage systems are not economic, the Stacking Cradle System *UNIBLOC* is the ideal alternative. This simple but efficient unit is suited for the transport and storage of bar stock, sheet metal and other bulky goods and offers the optimum solution for all storage needs when small to medium access frequencies are required. Using just a small footprint, this system ensures, with its uncomplicated technology and easy material handling, fast access to the material as well as an economic restacking operation. The KASTO *UNIBLOC*-System is suited for material lengths from 3 – 24 m (approx. 10 – 80 feet).

Low cost, huge benefits.

The manual multiple lift spreader beam *UNIBLOC U* from KASTO accomplishes definitely more than conventional systems. The reason: With the *UNIBLOC U*, up to three stacking cradle pairs with a usable height of 400 mm (15.7") each can be transported at the same time. The patented gripper arms (DE 198 15689 C1, EP 0770564 B1) allow simultaneous restacking of up to three layers. No energy supply is necessary for the mechanical gripper function – only lift and lower movements of a crane are necessary for the locking and unlocking of the spreader beam. A control display shows that the stacking cradles are safely locked – and safety is an essential part of KASTO-quality. The advantages are obvious: An easier but faster restacking operation resulting in high turnover volume.

Simple, dual hoist cranes are all that is needed: The *UNIBLOC U* makes uncomplicated multiple restacking possible





Designed for more profitability:
The patented gripper arms allow safe
multiple lifts

A successful system with
several upgrade levels.

The KASTO-Stacking Cradle Systems can be upgraded. The basic spreader beam *UNIBLOC E* completes our performance range. Due to its adaptor bolt, with centering aid, the *UNIBLOC E* allows the lifting of two or three cradles per layer. The matching KASTO-transport cradles *UNIVERSAL* allow – even in the standard version – a trouble-free switch to the multiple lift spreader beam *UNIBLOC U* with all its advantages.

For an even higher storage volume and/or turnover frequency, the manual Stacking Cradle System *UNIBLOC U* can be upgraded at any time to a fully automatic system - the KASTO innovation: *UNIBLOC A*.

Increased performance without any problems: The automatic *UNIBLOC A*.

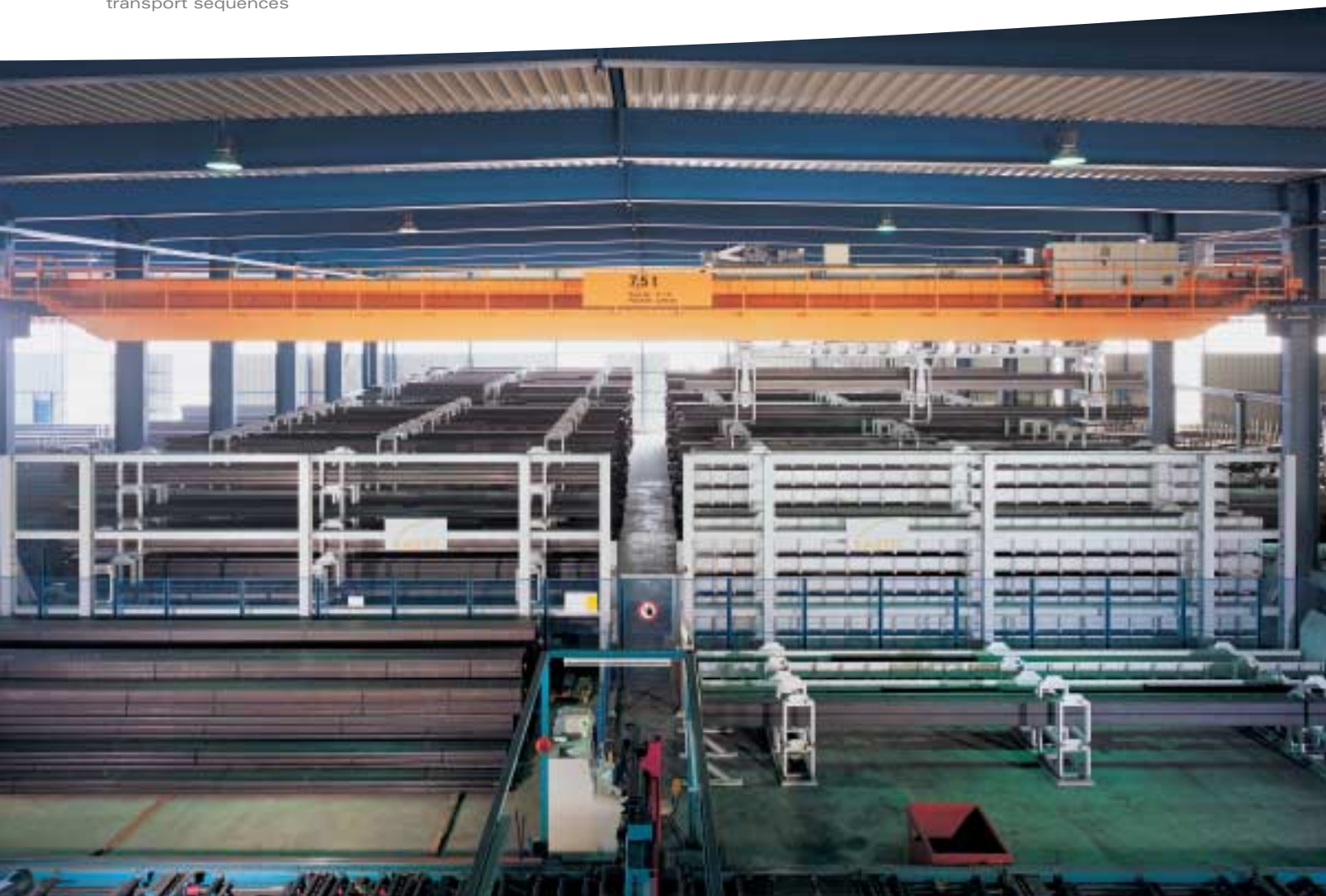
Increasing speed automatically.

Even for high storage density and busy stacking operations, KASTO offers a competent solution: Automatic multiple stacking with the Stacking Cradle System *UNIBLOC A*. This innovation is available in two versions: (1) in connection with the KASTO-Gantry Crane, moving on the floor, or (2) with a sway-free automatic crane. Both alternatives lead to the same goal: A faster stacking operation.

Guaranteed reliability and precision.

The *UNIBLOC A* is characterized by compact design and can lift and move up to three cradles on top of each other simultaneously for faster restacking and transport sequences. The automatic stacking cradle system has another technical advantage: The KASTO-Inventory Control Computer organizes material and storage location management and it stores, restacks and removes orders – optimizing thus entire work processes.

Automatic multiple restacking:
The fully automatic KASTO-Stacking Cradle System *UNIBLOC A* with two shelf blocks. A sway-free automatic crane speeds up the restacking and transport sequences





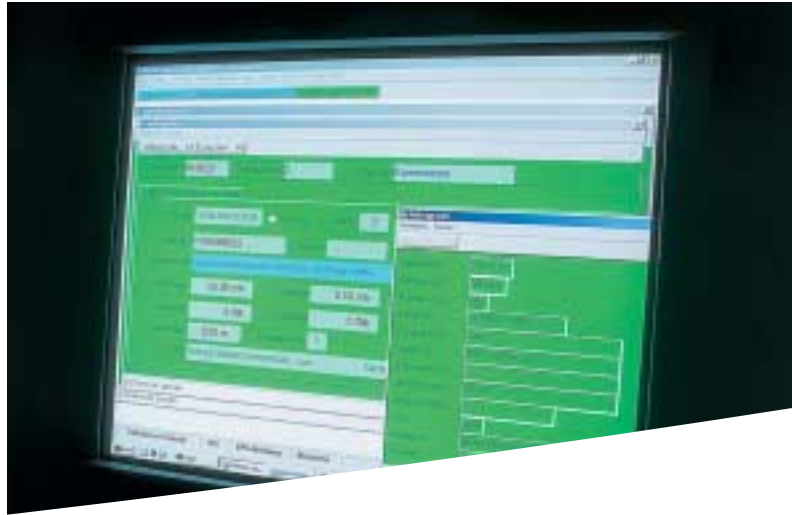
Fast transport: Multiple lift spreader beam with three adaptor pairs and telescopic guide while moving 2 storage layers



Fast access: The input/output station with three deposit locations allows fast and comfortable storing or removing



Flexible storage: Even remnants can be optimally stored by using stacking cradle cassettes



Easy to understand display and simple operation: The practical KASTO-Inventory Control Computer is another advantage of the UNIBLOC A

All advantages summarized:

The KASTO-Stacking Cradle System is simply the best solution for economic bar storage:

- Efficient work processes due to multiple lifts
- Enormous time savings due to transport of up to three layers simultaneously
- Accurate transport sequences due to automatic restacking
- Small floor space requirements due to vertical space utilization
- More profitability due to faster and easier access
- Unmanned, automatic storage optimization (i.e. during nights)
- Accurate and perpetual inventory
- System can be easily upgraded
- Bar Optimizer out of cutting lists (optional)

Attention: Manual, multiple lift UNIBLOC-Systems can be automated at a later date.



UNIBLOC E: The starter version regarding stacking cradles : Moving a KASTO-cradle type *UNIVERSAL*



Universal: With the patented gripper technology, even customer-specific transport containers can be economically transported and restacked



Magnetic: Stacking cradles can be safely manipulated with the *UNIBLOC F* magnet spreader beam



After the gripper arms are folded up, individual bars can be picked up quickly and safely

Attracts success while storing: *UNIBLOC F* with magnet lift technology.

Simple principle with huge effect.

In order to handle steel and metals efficiently, KASTO offers a transport spreader beam with magnet lift technology. The magnet spreader beam *UNIBLOC F* is the ideal solution for safe and fast transport and removal of material that can be magnetized. Due to variable magnetic strengths, the design ensures that the material is always being removed in the right quantity – with no additional rearranging or extra storage.

Easy access to individual bars.

Material removal in the desired quantity. The electro-magnet, integrated into the spreader beam, allows direct access to individual “magnetizeable” bars without changing the spreader beam. The important advantage: The *UNIBLOC F* is also equipped with the proven gripper technology for multiple lifts. The foldable gripper allows an effortless material access - even when higher towers of stacking cradles are stored closely side-by-side.

Technical Data	UNIBLOC	Cradles	Transp. Spreader Beams										
Load per storage location	6/9 t (13,200 / 19,800 lbs)	Usable load (per cradle)*	3 t (6.600 lbs)										
Economic storage height	from 10 locations	Usable width (mm)*	570/770/870/1070 (22.4"/30.3"/34.3"/42.1")										
Storage lengths	3 – 24 m (approx. 10 – 80 feet)	Usable height (mm)*	240/300/400/600/800 (9.4"/11.8"/15.7"/23.6"/31.5")										
Max. system height	up to 5 m (up to 16.5 feet)	Max. stacking height (cradles)	14 / 12 / 10 / 7 / 5										
Partially integrated saw possible	yes	* other designs upon request											
Fully integrated saw possible	no	<table border="1"> <tr> <td>Adaptor pairs*</td> <td>2/3</td> </tr> <tr> <td>Max. usable load*</td> <td>- single lift 6/9 t (13,200/19,800 lbs)</td> </tr> <tr> <td></td> <td>- multiple lifts 12 t (26,400 lbs)</td> </tr> <tr> <td>Suited for magnet system</td> <td>Optional</td> </tr> <tr> <td>Telescope to transport different lengths</td> <td>Optional</td> </tr> </table>		Adaptor pairs*	2/3	Max. usable load*	- single lift 6/9 t (13,200/19,800 lbs)		- multiple lifts 12 t (26,400 lbs)	Suited for magnet system	Optional	Telescope to transport different lengths	Optional
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Always the appropriate solution:
Elements of the KASTO-Stacking Cradle Systems.

All KASTO-Stacking Cradles are robustly and precisely built weldments. The open design allows easy access to the material, which in return results in significant time-savings. Besides the standard types *UNIVERSAL* and *AUTOMATIC*, KASTO also manufactures customized solutions or adapts the stacking cradle system to already existing containers.

Transportation cradle *SHEET METAL*: To store sheet metal packages and plates in different formats

Transportation cradle *AUTOMATIC*: Optimally adapted to multiple and automatic spreader beams

Transportation cradle *UNIVERSAL*: Can be moved via single or multiple lift spreader beam



Optical display of gripper function for safe and fast cradle handling

Adaptable: The utilization of a telescopic transportation spreader beam allows moving of material with different lengths

Versatile: The KASTO *UNIBLOC* Systems are not only designed for bar stock or sheet metal but the advantages and versatility of these systems are as convincing when storing cable drums or coils



KASTO's entire program: Economic sawing and storing of metal.

Competence everywhere.

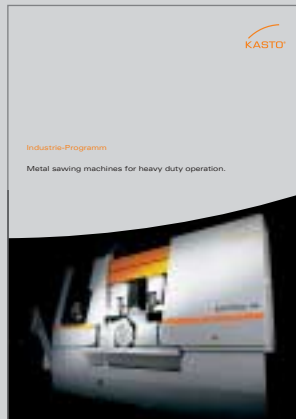
The KASTO program consists of: Circular saws and bandsaws for medium to heavy production cutting applications as well as storage technology for bar stock up to storage systems with integrated sawing centers, metal cutting band and circular saws for light to medium use in workshops and production as well as hacksaws with the pushing arching cutting motions, invented by KASTO.



KASTO-Shop Program:

- Semi-Automatic Hacksaws for straight and miter cuts
- Fully-Automatic, Semi-Automatic and Manual Circular Saws for straight and miter cuts. Cutting range up to 140 mm (5.5").
- Fully Automatic and Semi-Automatic Bandsaws for straight and miter cuts.

Applications: Tradecraft, education/training, metalworking industry and steel service centers.



KASTO-Industry Program:

- Production Bandsaws
- Platesaws
- Large Production Band saws for cutting and handling of large work-pieces
- Inclined Magazine Saws to cut large number of pieces
- Programmable Magazine Saws to cut medium batch sizes with fewer personnel

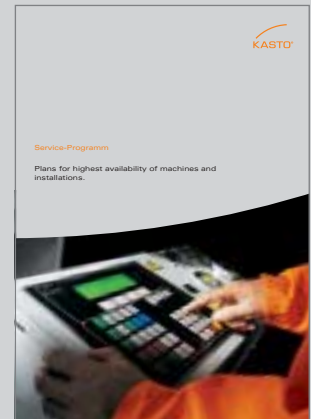
Applications: Metalworking industry, supplier industry, steel service centers and steel mills.



KASTO-System Program:

- Fully Automatic Sawing Centers
- Fully Automatic Bar Storage Systems as cantilever or cassette storage systems
- Fully Automatic Commissioning Systems
- Combined Sawing and Storage Systems
- Inventory Control Computers

Applications: Metalworking industry, steel service centers and bar stock logistics.



KASTO-Service Program:

- Maintenance concepts
- Service contracts
- Machine repair and machine overhaul
- Spare parts
- Information and help via phone
- Run-off and training
- On-site maintenance
- Hotline
- Teleservice

Your KASTO Partner



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