

KASTOretrofit

Modernisation and Extension of Installations for
Metal Cutting and Storing



Preserve the Good, Invest Purposefully

Looking for the Right Decision

The maintenance history of every technical product is marked by wear and technical aging. Sooner or later the questions occurs for new investment. Not only during economically "tense" periods the so-called Retrofit the modernisation resp. extension of existing installations in order to bring them to the latest state-of-art in technology and software offers an interesting alternative.

The Task

The increasing requirements for speed, availability and flexibility are no longer realised with your existing storage system which is already working at its limit. With increasing frequency, production stops, maintenance costs and problems with the supply of spare parts occur.

The Objective

KASTO*retrofit* adapts your storage system to new requirements and provides you with an again efficient and reliable component in the logistics chain for many years. In an individual way adaptations and extensions are realised quickly, accurately and with minimum downtime.



Our Competence, Your Advantage

Your Partner

KASTO has decades of experience in designing and installation as well as service of over 1000 storage systems. We analyse your requirements and develop an optimised measured package together with you. You are completely provided with the realization of the project as well as with the service and support from one hand by KASTO.

Your Advantage

The aim of KASTOretrofit is to increase the availability and/or the efficiency of your storage system. The resulting advantage in competition can directly be passed on to your customers. The costs incurred are often considerably lower than the investment costs for a new storage system that the project quickly amortises itself. Last but not least the KASTOretrofit guarantees low down-times during the retrofit and a low risk of error.



KASTOretrofit Services



Replacement of Critical Components

Intention:

- Guarantee for availability of spare parts
- Reduction of susceptibility of failure of critical components of storage systems

Example: KASTO Sawing Center model 1987

- Exchange of the operating system of the warehouse management from QNX to Windows
- Replacement of the SPS control hardware
- Replacement of the direct-current drive at the operating gantry crane by a three-phase drive with frequency control

Modernisation of Storage Controls

Intention:

- Better integration of the system
- Protection of the system availability
- Optimisation of cycle times

Example: Competitor honeycomb storage system model 1987

- Replacement of the complete system control
- Modification of lifting device and exchange of gripper components
- Integration of the KASTO Warehouse Management System and coupling to SAP



Reconstruction and Extension of Storage Systems

Intention:

- Expansion of storage capacity
- Technical extensions
- Re-organisation of work flows

Example: Competitor storage system model 1989

- Extension by additional shelf blocks
- Installation of a new operating gantry crane
- Exchange of the complete storage control
- Change-over to the KASTO Warehouse Management System KASTOlvr





Tailor-Made Solution for Your Retrofit

Examination and Technical Advice

According to the specific requirements and setting of tasks for the system to be modernised, an actual state analysis is accomplished. The proven is to remain preserved and new components are to be added.

- In experts' meetings the specific requirements and setting of tasks are compiled.
- An examination of the storage systems informs about the condition of the installation and serves as basis for planning.
- Different variants of modernisation are worked out and summarised in a budget-quotation.

Detailed Analysis and Development of Solution

In a detailed taking down during several days the existing technical facilities and operational sequences are specified and defined. A solution scenario is developed and calculated:

- Constructional, technical and organisational conditions are examined, interfaces to be clarified and fixed. It is of subordinated importance whether the existing installation was originally supplied by KASTO.
- An accurate plan of the modification measures is outlined and the necessary expenditure is determined.
- A binding offer with all necessary measures and data for a decision are compiled.

Planning and Preparation

The planning and realisation require a high level of precision and experience. The "hot" retrofit phase is prepared by corresponding pre-acts:

- All actions are planned up to the last screw and cable clip. This is the only way such a complex modernisation can be safely managed with only a few days down time.
- New machine and system elements as well as exchange components are provided and tested.
- The operators are trained at the new KASTO Warehouse Management System in advance.

Realisation

The realisation of the measures constitutes the core of the project. The speed is as important as the precision of the work.

- KASTO *retrofit* experienced technicians install the new components at the existing system. The detailed planning allows the parallel working at several tasks.
- Even at extensive modifications the run-off test starts already after 2 - 3 days by our software specialists.
- During shift assistance all movements and work flows are optimised and the operators are trained.

Service and Support

The KASTO Service guarantees a continuously excellent service for your modernised installation:

- A Helpdesk with experienced specialists and possibilities for remote control ensures the availability of your system.
- Service engineers help you with problems locally.
- A stock of more than 35.000 articles offers the highest availability of spare parts.

KASTOretrofit at Summary

Comparison of Characteristics

	Status quo	KASTOretrofit	New System
Investment Costs	none	low	high
Current Costs	high	medium	low
Reliability of System-	low	high	high
Efficiency of System-	medium	high	maximum
Period of Amortization	-	medium	long
Possible Realisation	-	short-term	long-term

Why KASTO

- Mechanic, control technology, software, support from one hand.
- Experience in construction and service of over 1000 installations
- Continuity in conception of control and software development
- Storing of critical parts, supply from stock within 24 hours
- Modular control software, customer-specific adaptation
- Functioning and availability guarantee for the modernised installation
- Permanent support by KASTO-Service in the field (repair / maintenance) and tele-diagnostic



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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