



Transport- and Handling Units

APPLICATION

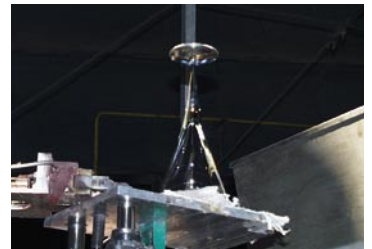
Transport systems and handling robots connect all intersections of the production process and thus are a very important component of a fully automatic production process. The PC-based control of all movements carried out by the servo-motor systems facilitates a smooth transport of glass items. Transport- and handling systems may be integrated into other production systems or may operate independently.

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FEATURES

very cost-saving	<ul style="list-style-type: none"> • due to optimal adaptation to the glass item (vacuum or mechanical grasp)
very flexible	<ul style="list-style-type: none"> • due to very quick job-changes from vacuum to mechanical grasp and vice versa
optimal integration into any production line	<ul style="list-style-type: none"> • due to individual layout – allowing for the individual requirements of the glass items to be transported and the production plants to be connected • due to full compatibility of robot control systems with the control systems of the production systems
optimal production conditions	<ul style="list-style-type: none"> • because the relevant parameters may be altered while the robot is in operation and the optimal results may thus be immediately achieved • because the MMC-software facilitates noting, connecting and keeping record of all adjustments and events and helps to efficiently control and monitor the production process
extremely user-friendly	<ul style="list-style-type: none"> • due to the uncomplicated user menu of the MMC-software • due to the MMC-software’s graphic programming tool which includes all movement cycles, the pressing process and the pressing sensor



THE PACKAGE INCLUDES

HANDLING ROBOT

- 3 units freely programmed servo-motor systems
 - for the vertical movement
 - for the horizontal movement
 - for the swinging movement

ARTICLE HOLDER

- vacuum or mechanical grasp

TURN-OVER DEVICE

ELECTRONIC CONTROL SYSTEM

- PC-based real time system with MMC-software and Windows 2000 operating system, incl. cooling system

OPTIONS

ARTICLE HOLDER

- vacuum
- mechanical grasp

TRANSFER SYSTEMS

- above ground level
- beneath ground level
- at ground level

CONVEYOR UNITS

- conveyor belt
- transporting boards
- pallets

LEHR LOADER

- pushing
- staking

TAKE-OUT DEVICE AFTER ANNEALING LEHR

- vacuum
- mechanical grasp
- equipped with an opto-electronic system for locating glass items for take-out

ADDITIONAL EQUIPMENT

- turn-over device
- fire-polishing unit

PROVISIONS FOR INSTALLATION

ELECTRICAL SUPPLY

3 / N / PE AC 50/60 Hz 230/400 V
3 x 220 V optional

COMPRESSED AIR

0,5 - 0,6 MPa

