

Integrated and fully automated

# Robot palletising



## UNIVEYOR as robot supplier

### UNIVEYOR:

- Supplies total solutions with well-proven and standardised control systems
- Develops and produces advanced portal robots based on the latest servo technique
- Produces special, customer-adapted solutions
- Has a special facility for the design and manufacture of gripping tools for robots
- Works with leading suppliers of articulated robots
- Produces surrounding equipment like conveyors, automated stackers, transfer cars, pallet magazines etc.
- Has service facilities and offers a 24-hours hotline support

### Portal robots

UNIVEYOR manufactures portal robots, offering advantages in the following situations:

- Palletising to a long row of pallets
- If floor space is limited and free space is required for truck driving etc.
- If items need to be handled vertically, such as stacking boxes



### Articulated robots

UNIVEYOR supplies systems, including articulated robots for purposes like:

- Palletising of plastic boxes and cardboard boxes
- Depalletising of boxes
- Handling and palletising of sacks and bags
- Automated picking and order assembly



## Palletising of bottles

- Robot with gripper for 35 bottles/cycle
- End of line equipment for bottles
- Tray/carton erector & strapping line
- 8000 bottles/hour



## Palletising of stacks

- Robot with gripper for 2 stacks/cycle
- End of line conveyors incl. box stackers
- Wrapping line
- 600 stacks/hour



## Palletising of cartons

- Portal robot with vacuum gripper for cartons
- End of line & pallet conveyors
- Individual positions for 1-5 cartons/cycle
- 800 cartons/hour



## Multi solution

- Portal robot with multi-gripper tool
- Depalletising of empty boxes
- Empty pallet & lid handling for boxes
- Palletising of filled & lidded boxes



## Robot control systems

UNIVEYORs robot solutions include standard control systems incorporating the following features:

### Portal robots:

- PC & PLC controller with windows user interface
- Auto-optimisation of travel distance
- Auto-optimisation of speed and acceleration
- Facility for statistics/reports, number of operations, etc.
- Communication TCP/IP & Ethernet
- Up to 3 gripping heads on the same control system

### Articulated robots:

- Standard PLC robot controller with 32-bit processor
- Operator panel with LCD display
- Up to 3 robots and up to 27 axes from one controller
- 5.000 to 60.000 points
- Communication through serial interface
- Optional Ethernet & Fieldbus communication
- Optional PC software (off-line programming etc.)



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## UNIVEYOR as system integrator

- UNIVEYOR is a turnkey supplier of integrated storage, conveyor and material handling systems.
- Robot solutions are a key focus area
- Systems include standard robots and conveyor modules, customer-adapted handling units and advanced PLC and PC control systems, integrated into a total solution
- Systems are developed and implemented in close dialogue with the customer