

#### Requirements and Solutions

Knowledge of the many interdependencies and expertise in the selection and technical implementation of a widest range of customer-specific bottle washing requirements distinguish the specialists of the bottle washing technology division and their ranges of Innoclean products.

Thanks to its modular design, the double-end KHS Innoclean DM bottle washer can be configured to meet a variety of bottle washing requirements. Other energy and water-saving features are available in addition to the functions and characteristics for energy-saving and resource-conserving operation already offered in the standard version.

# **Key Features**

- Project-related separation of infeed and discharge
- · Self-supporting, welded housing
- · Multiple-bath design
- · Modular design for selecting processes according to specific requirements
- Low energy consumption thanks to optimum water and heat management

# Standard Equipment

- Multiple-stage bottle pre-heating and pre-washing
- · Plastic bottle cells for gentle container handling

CLEANING

- Energy-saving bottle pocket carriers for minimized carryover of heat and liquids
- · Filtration of circulating media in all treatment zones
- · Cross-flow spraying for maximum spraying time and uniform bottle treatment
- Split-channel vapor extractor externally mounted over the entire width of the machine to avoid recontamination
- Heated housing surfaces above the bottle discharge prevent condensation in this critical area of the machine
- · Triple-i-Drive system equipped with numerous functions for drive tasks









# Advantages

- The hygienically designed spraying system means considerably fewer points for potential clinging soiling as well as greatly reduced maintenance and cleaning effort
- Automation capabilities are available in nearly all machine areas for virtually unattended machine operation
- Many options are available for coupling the machine to external heat consumers such as beer pre-heaters and crate washers



#### Service

- · Customized machine design
- · Fast supply of spare parts
- · Worldwide service

#### Options

- Increased pressure pre-washing and automatic belt discharge
- · Fully automatic sieve belt discharges in the water zones
- · Energy-saving concept with heat recovery between various functional areas
- · Electrical power-saving concept for pumps

#### Technical Data

# Machine capacity

15,000 bottles/hr to 150,000 bottles/hr

Available processing widths

2.9 m to 6.3 m

### Processable container types

Refillable glass and PET bottles

#### Processable container sizes

Diameters ranging from 53 mm to 109 mm and heights from 135 mm to 340 mm

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