

Press release ARM 10600

## // **ARM 10600: Innovative cleaning system delivers impressive results** ///

**Inhaling potent medicines, or just touching them, can have noxious effects even in minute quantities. It is therefore vitally important to quickly and gently remove possible contamination from the exterior of vials after dosing or freeze-drying. The ARM 10600, newly developed by B+S, is a highly effective exterior cleaning machine that not only features an innovative cleaning system, but also a flexible design that allows quick adaptation to different container sizes and cleaning requirements.**

The centerpiece of this flexible system, which is capable of processing up to 12,000 containers per hour, is a newly developed cleaning station with ring jets specially designed to provide 360-degree cleaning. Depending on application, the user can choose between low and high-pressure cleaning options. The special cleaning process guarantees maximum coverage of the container surface - including the base - with no risk of moisture collecting under the crimp cap or entering the container. This is achieved by close-tolerance sealing or shielding of the crimp cap (there are two process options, the choice of which depends on whether high or low-pressure cleaning is preferred) and by high-precision adjustment of the spraying intensity and movement of the ring jets. These processes can also be tailored for each application. The vials then undergo another specially adapted drying process. Cleaning results can be validated on a case-by-case basis.

The product designers placed great emphasis on hygienic design. Both the rinsed product and the cleaning water are safely and reliably discharged from the system. The entire system is also very easy to clean, avoiding unwanted build-up of deposits.

A special magnetic transport system makes for user-friendly container handling. Very few sizes parts are required to adapt the system to a different container size. Independently driven grippers provide a high degree of flexibility, making it possible to compensate for empty spaces without slowing down upstream machines. A Re-wash function can also be selected (in the event of loss of pressure for instance), and the grippers can be easily moved back and forth, e.g. to self-clean the cleaning station.

The ultimate objective of exterior cleaning is of course to safeguard the health and safety of operators and users. However, external cleaning is also a factor in process reliability because it protects downstream equipment, while cosmetic and aesthetic aspects are relevant to product quality.

The ARM 10600 is a highly efficient cleaning machine that can be quickly adapted to different container sizes and cleaning requirements. It is available in two versions: a cost-effective and readily available basic version for less complex cleaning processes, and a version for advanced processing of toxic and high-potency substances. Both versions can be operated as standalone machines or in combination with upstream or downstream systems. The new external cleaning machine combines perfectly with the flexible VarioSys® and CombiSys production systems.

We will be pleased to supply further information on request

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