



WA 290 automation systems

Maximizing process efficiency
for Belimed washer-disinfectors



Efficiency, performance and flexibility

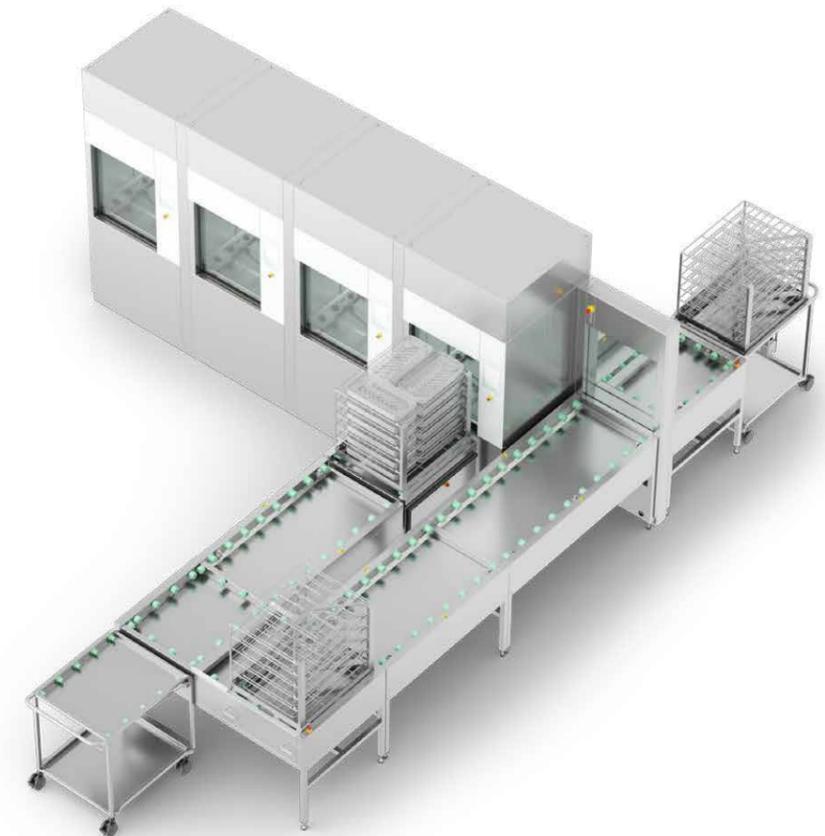
The WA 290 automation systems intelligently coordinate loading and unloading processes between various hygiene zones. This approach results in maximized throughput, by both minimizing idle time and reducing the workload for staff.

The various options on offer allow for full flexibility when it comes to setting up your CSSD. Working together with our planners, you will be able to ensure optimal performance for the available space.

Maximizing throughput according to your needs

The WA 290 system can be configured to meet your individual needs in terms of space and throughput volume. One automatic shuttle system can load racks from one or two feeding lines and deliver the racks to up to eight washer-disinfectors. A second shuttle can be used to feed a further eight washer-disinfectors if required.

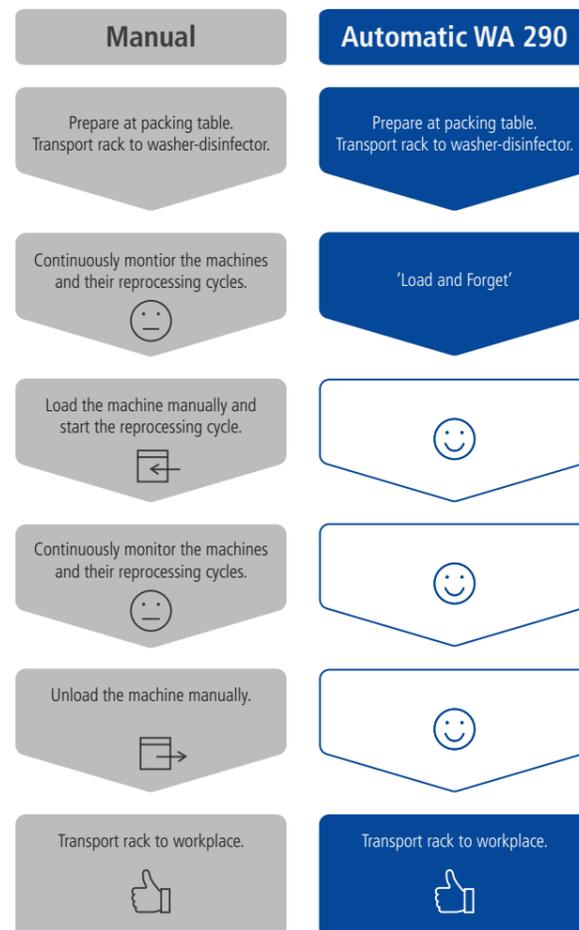
Rack coding enables the WD 290 IQ to automatically select the appropriate program for processing the load. Once the cycle has been completed and verified, the rack is automatically transferred to the unloading conveyor. At peak flow times the washer-disinfector is constantly in use, thereby efficiently avoiding any idle time.





Reduced workload and increased productivity

The WA 290 automation system takes care of the tedious loading and unloading work, freeing up additional capacity. This means your staff can focus on the more demanding work with the medical devices without interruption, resulting in increased productivity and a lower risk of error.

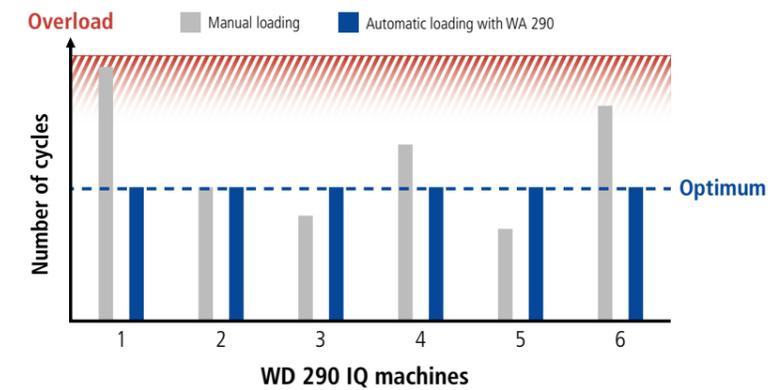


Additional features and benefits

Balanced machine utilization through automation

The WA 290 automation system ensures that the WD 290 machines are evenly loaded, by always selecting the next available washer-disinfector in line. This reduces machine idle time and facilitates planning of service schedules.

Load diagram



Start/stop feature

At the touch of a button, the shuttle can be stopped to manually load a rack or access the machine for maintenance or service. For safety reasons, the WA 290 shuttle system is restarted via the main panel.



WA 290 Closed Loop

The WA 290 Closed loop (CL) is a fully configurable automation system, with the capacity to load up to eight washers with one shuttle.

When combined with an automatic program recognition in the WD 290 IQ washer-disinfectors, the WA 290 CL will take care of the washing goods on its own, once placed on the loading queue. The closed loop system allows the racks to be kept "in the loop" without needing to be removed.

The centralized loading and unloading section offers more efficiency by reducing the distance to the working tables.

Loading/contaminated side

A fully automated shuttle picks up the racks from the loading queue and loads the next free washer in line.

Advantages:

- One feeding entry point (docking)
- Optimizing floor space on the contaminated side
- Once the racks are prepared and loaded, no further supervision is needed
- Manual loading of a washer – in a case of emergency – is possible any time
- The cross-conveyor allows the rack to be kept in the loop system if desired (loading of the sieves directly on the cross-conveyor)

Unloading/clean side

The clean racks from multiple washers are automatically unloaded onto the powered cross-conveyor modules and moved to the unloading (corner) module. From there the racks can be unloaded and brought to the working stations.

Advantages:

- Centralized unloading
- Can be used with restricted room depth on the clean side
- Multiple washers can be unloaded simultaneously

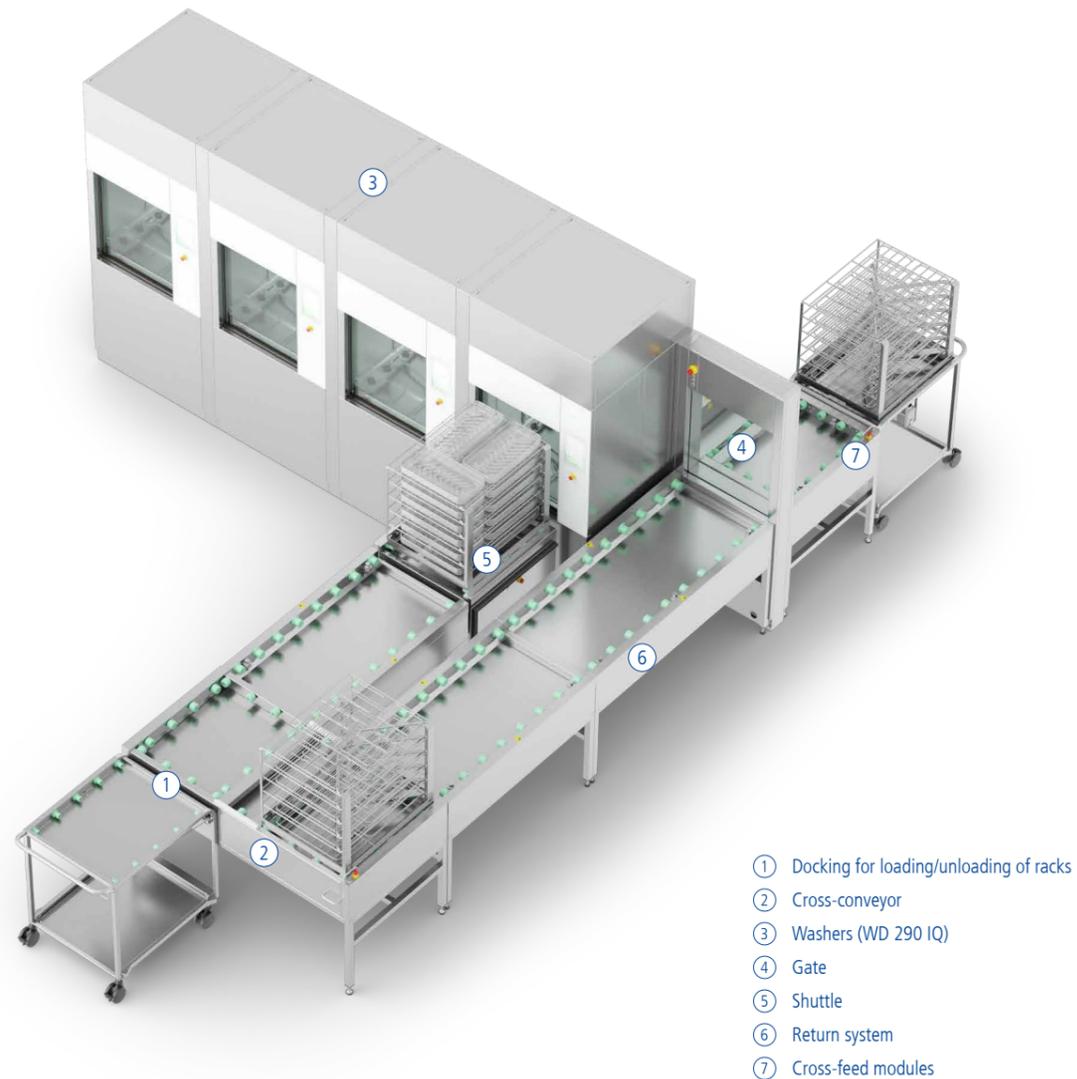
Return-transport conveyor and closed-loop module

As soon as the racks have passed the gate, the automated system returns them to the closed-loop unloading section. From there the racks can be either unloaded or loaded and moved on to the loading stretch.



WA 290 CL Full flexibility for adapting to your space requirements

The Belimed Washer Automation System is fully modular and can be adapted to the available space in your CSSD and the required capacity, with a large number of different configurations. The standard system can be extended to up to 18 rack positions on the loading side (with two shuttles). The return system can be adapted accordingly.



WA 290 DD Direct Docking

The WA 290 automation system is also available with direct docking for both the return transport module (to remove the racks) and the loading modules stretch (to load the racks). All the variants from the closed loop system can be ordered as part of the direct docking option.

Advantages:

- Loading shuttle for up to eight washer-disinfectors (two systems combined for up to 16 washers)
- Single or parallel loading stretch (for up to seven racks)
- Cross-conveyors on unloading side (only)
- Automated return-system with gate and storage capacity for up to six racks



WA 290 SO Straight-out unloading

The WA 290 SO straight-out unloading system combines the WA shuttle loading system with decentralized unloading: each washer-disinfector has its own "straight-out" unloading module, allowing for easier transfer of the cleaned items to the packing tables if space allows.

Advantages:

The loading system is fully configurable with the WA 290 (direct docking) for up to eight washer-disinfectors with one shuttle

- Single or parallel loading queue (for up to seven racks)
- Straight-out unloading modules (one for each washer-disinfector)
- Optional RT-SYS return system with Gate-S or Sluice (to be ordered separately)



WA 290 SI Straight-in loading with return transport

The WA 290 SI straight-in loading system is designed for CSSDs with space restraints. By combining the SISO straight-in modules on the loading side and the cross-conveyor modules and a centralized unloading space, the needed space is reduced to a minimum. The individually configurable rack return modules with the Gate-S are an integral part of the WA 290 SI system.

Advantages:

- Decentral loading and central unloading
- Automation system with the least space requirement
- Fully configurable return conveyors with space for up to six racks on the contaminated side
- Corner-module on the clean side with Gate-S (optionally with direct-dock option – if no return-system modules configured)
- Cross-conveyors on the unloading side



RT-SYS Belimed's return transport system

In a high-volume CSSD, where throughput and efficiency play an important role, Belimed's return transport system comes into its own. It is available as an optional part for the WA 290 (direct dock) and the WA 290 SO.

The RT-SYS return transport system can be configured to your needs, with elements of varying lengths on the contaminated and decontaminated sides. Depending on your hygiene requirements, you can choose between a gate (single door) or a double gate (sluice) for separating the two sides.

Advantages:

- Stand-alone, automated return system with Gate-S or Sluice
- Configurable system for storage of up to three racks on the clean side and six or seven racks (with Sluice or Gate-S respectively) on the contaminated side



WA 290 configurations (system summary)

WA 290 CL (Closed Loop)

- Loading shuttle for up to eight washer-disinfectors (two systems combined for up to 16 washers)
- Single or parallel loading conveyors (for up to seven racks)
- Cross-conveyors on the unloading and loading sides
- Automated return-system with gate and storage capacity for up to six racks



WA 290 DD (Direct Docking)

- Loading shuttle for up to eight washer-disinfectors (two systems combined for up to 16 washers)
- Single or parallel loading stretch (for up to seven racks)
- Cross-conveyors on the unloading side (only)
- Automated return-system with gate and storage capacity for up to six racks



WA 290 SO (Straight Out)

- Loading shuttle for up to eight washer-disinfectors
- Single or parallel loading queue (for up to seven racks)
- Straight-out unloading modules (one for each washer-disinfectors)
- Optional RT-SYS return system (to be ordered separately)



WA 290 SI (Straight In)

- Straight-in loading modules (one for each washer-disinfectors)
- Cross-conveyors on the unloading side
- Corner-module on clean side with Gate-S (optionally with direct-dock option – if no return-system modules configured)
- Configurable, automated return-system with capacity for up to six racks



RT-SYS

- Stand-alone, automated return system with Gate-S or Sluice (as pictured)
- Configurable system for storage of up to three racks on the clean side and six or seven racks (with Sluice or Gate-S respectively) on the contaminated side



Belimed's WA 290 automation solutions in a nutshell

Belimed's automation solutions complement the highly effective washer-disinfectors to increase throughput in your CSSD and reduce the workload for your staff.

Efficiency

- The intelligent shuttle system efficiently places the racks on the feeding line, making sure the washer-disinfectors are loaded evenly. Idle time is kept to a minimum, and staff are able to concentrate on more important tasks.

Performance

- Maximizing output with a reliable and secure system is the ultimate goal of every high-performing CSSD. Belimed's automation system WA 290 CL, in combination with the WD 290 IQ, ensures maximum throughput and the highest quality treatment, regardless of how many washer-disinfectors are in use.

Flexibility

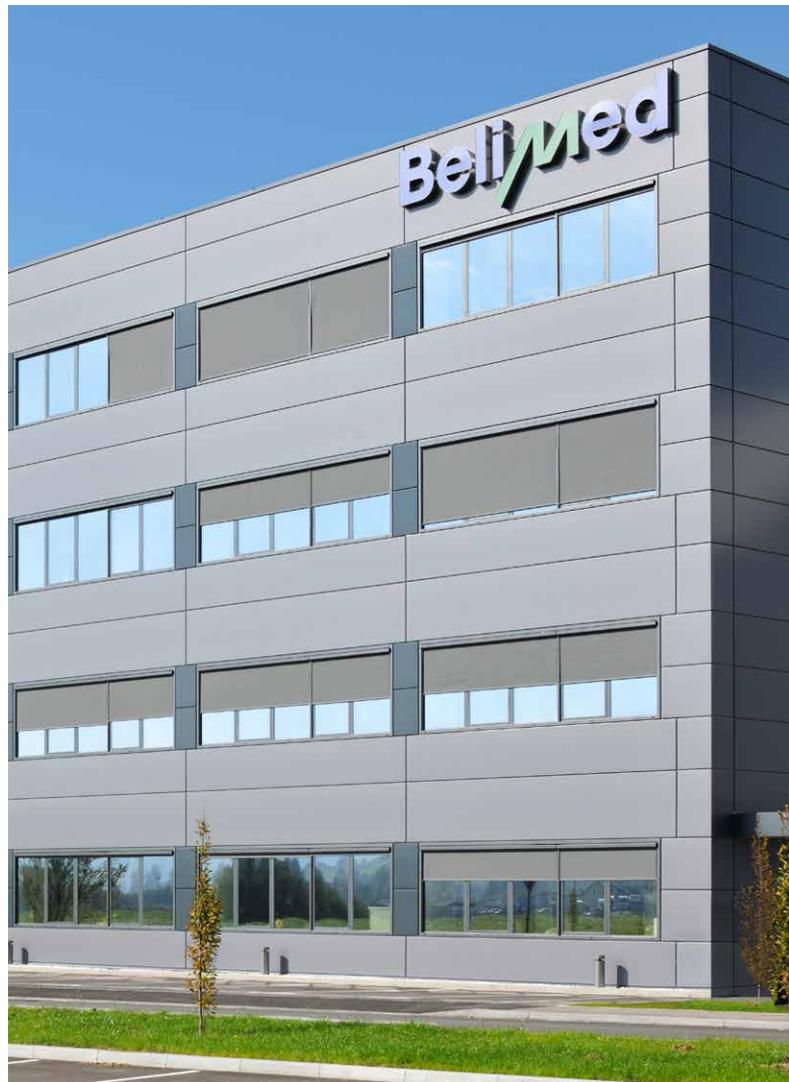
- The modular concept reaches new heights with the WD 290 IQ, which offers the opportunity to add automation to your CSSD at any time during the life cycle of the products. The range of different solutions provides you with the option of increasing the capacity of your CSSD whenever you need it.

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