



Ocean



Turntable systems



Pure Technology.

Customized cleanliness

Efficient cleaning despite increasing requirements for the technical cleanliness of products? Our solutions help you, the user, to master this challenge. Each system is individually designed because different customers can have very different requirements.

Our support and design staff can fall back on their experience from numerous implemented projects. Cleaning trials with the original components at our Technical Center give you, the user, the reassurance of a safe investment for your plant while also determining the exact parameters for cleaning chemicals, time and temperature.

BvL systems reliably clean your components and can be integrated seamlessly into your production processes. They are easy to operate and comply with the strict guidelines of the automotive industry. In addition, they are designed in line with the Machinery Directive 2006/42/EC, C standard EN 12921 and the German Accident Prevention Regulations (UVV).

- Solid design & long service life
- Guaranteed cleaning success
- Intuitive operation
- Easy access for easy maintenance
- High-quality components from renowned manufacturers
- Quality "Made in Germany"
- Specialist firm according to the German Water Management Act (WHG), certified management systems





For compact and medium-sized workpieces

For new and repair parts

Great cleaning power

Solid and space saving design



Standard

Integrated nozzle frame in the cover



Brief description

Ocean RC/AF is a universal spray cleaning system with an easy-to-open top cover. All processing steps are carried out in one chamber. Rotating the parts carrier around the U-shaped nozzle system ensures all-round thorough cleaning.

Basic system

Cleaning system:	Spray cleaning with flat spray nozzles
Functional principle:	Rotating parts carrier with static nozzle system
Number of tanks:	Single and multiple tank systems
Loading:	Loading from the top, manually or by crane, removable, galvanized loading basket
Housing:	Stainless steel
Tank insulation:	Stainless steel
Control and operation:	Siemens Simatic with Siemens touch panel
Bath monitoring:	Libelle Fluid Control

Standard sizes	Unit	RC500	RC750	RC1.000	RC1.200	AF750	AF1.000	AF1.200
Basket diameter	in	20	30	39	47	30	39	47
Usable height	in	18	18	18	18	18	18	18
Carrying capacity	lb	1,102	1,102	1,102	1,102	1,102	1,102	1,102
1-tank system: Tank volume	gal	18	34	61	85	58	92	148
2-tank system: Volume per tank	gal					32	53	74
Other technical data and on-site services on request								



Cleaning technology

- The rotary basket revolves around the vertical axis
- U-shaped spray nozzle frame
- Nozzles and nozzle frames can be adapted to the component
- Working dimensions, load capacities, and pump capacities can be adapted



Processing steps

The processing steps are carried out in a chamber:

- Spray washing
- Spray rinsing (for multiple tank system)
- Drying with air blast or hot air (optional)



Options and extensions

- Drying systems
- Handling systems: Bridge loader and automation
- Pneumatically assisted opening/closing of the cover
- Increased pump capacity
- Bath maintenance options (e.g. filtration systems, oil separator)
- Process reliability: Libelle Cleaner Control, Libelle Oil Control, Libelle Data Control
- Cascade guiding for multiple tank systems
- Floor drip pan
- Other system components



Smart Cleaning

Intelligent cleaning with **BvL** apps and digital networking. Transparent process information for predictive diagnostics and maintenance of the system: efficient and automatic.



High cleaning performance even for persistent contaminations

For applications with increased loads

For applications with high contamination



Standard

Special U-shaped nozzle system and rotating turntable



Brief description

Ocean RW is a universal spray cleaning system with automatic lifting gate. All processing steps are carried out in one chamber. Rotating the parts carrier around the special U-shaped nozzle system ensures all-round thorough cleaning.

Basic system

Cleaning system:	Spray cleaning with flat spray nozzles
Functional principle:	Rotating parts carrier with static nozzle system
Number of tanks:	Single and multiple tank systems
Loading:	Front loading using the stationary front table: removable charging carriage with grate
Housing and tank insulation:	Stainless steel
Control and operation:	Siemens Simatic with Siemens touch panel
Bath monitoring:	Libelle Fluid Control

Standard sizes	Unit	950	1,250	1,600	1,950	2,300	2,800
Basket diagonal	in	37	49	63	77	91	110
Usable length	in	30	39	50	61	69	87
Usable width	in	30	39	50	61	69	87
Usable height	in	30	30	39	39	49	59
Carrying capacity	lb	1,102	1,102	1,653	1,653	2,205	3,307
1-tank system: Tank volume	gal	174	251	317	436	660	1,056
2- and 3-tank system: Volume per tank	gal	87	125	158	218	330	528

Other technical data and on-site services on request



Cleaning technology

- The turntable revolves around the vertical axis
- All-round component cleaning through special U-shaped nozzle system
- A separate nozzle frame for each tank reduces mixing
- Nozzles and nozzle frames can be adapted to the component
- Usable dimensions, load capacities and pump capacities can be adapted



Processing steps

The processing steps are carried out in a chamber:

- Spray washing
- Spray rinsing (for multiple tank system)
- Rinsing with demineralized water (optional)
- Circulating air drying (optional)



Options and extensions

- Drying systems
- Handling systems: charging trolley, cross-movement table, bridge loader and automation
- Bath maintenance options (e.g. filtration systems, oil separator)
- Process reliability: Libelle Cleaner Control, Libelle Oil Control, Libelle Data Control, remote diagnosis
- Cascade guiding for multiple tank systems
- Floor drip pan
- Other system components



Smart Cleaning

Intelligent cleaning with **BvL** apps and digital networking. Transparent process information for predictive diagnostics and maintenance of the system: efficient and automatic.



Version

Ocean RW for direct loading into a robot cell



Version

Ocean RW with side viewing window and manual cleaning device





Version
Nozzle system individually adapted to the components



Version
Center lance to thoroughly clean internal components



Version
Lowerable nozzle frame for different washing heights



Version
Drying nozzle adapted to the component



Version
Bayonet connection for adjusting the nozzle frame to two different heights



Version

Ocean RW with chain conveyor feed and automatic drive-in and drive-out device. Lateral transport via roller conveyor.



Version

Ocean RW with automatic drive-in and drive-out device, lateral transport via roller conveyor, loading and unloading via fork lift.



Detail

Ocean RW with magnetic conveyor to discharge ferritic chips from the washing tank



Version

Ocean RW with hydraulic drive-in and drive-out device, special nozzle frame, manual lances and viewing window



Version

Ocean RW with increased usable height and hydraulic drive-in and drive-out device



Version
Ocean RW with central supply to lower operating costs and decentralize maintenance and service points



Version
Ocean RW with loading portal for unmanned operation



Version
Ocean RW with scissor lift table and powered chain conveyor, as well as dual-sided loading and cycled flow



Version
Ocean RW with pedestal and automatic drive-in and drive-out device



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