



Ocean



Turntable systems



Pure Technology.

Customised cleanliness

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

Our consulting and engineering staff can rely on their experience from numerous completed projects. Cleaning trials with original components at our Technical Centre give you as the user the reassurance of a safe investment for your facility while also determining the exact parameters for cleaning chemicals, time and temperature.

BvL systems deliver reliable cleaning for your components and can be integrated seamlessly into your production line. They are easy to operate and comply with the strict guidelines of the automotive industry. They are also designed in compliance with the Machinery Directive 2006/42/EC, C standard EN 12921 and the German Accident Prevention Regulations (UVV).

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





for compact and medium 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 cover. All processing steps are carried out in one chamber. Rotating the parts carrier around the U-shaped nozzle system ensures thorough cleaning all around.

Basic system

Cleaning system:	Spray cleaning with flat spray nozzles
Operating principle:	Rotating parts carrier with static nozzle system
Number of tanks:	Single-tank or multi-tank systems
Loading:	Loading from the top, manually or by crane, galvanised 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	mm	500	750	1,000	1,200	750	1,000	1,200
Effective height	mm	450	450	450	450	450	450	450
Load capacity	kg	500	500	500	500	500	500	500
1-tank system: Tank volume	l	70	130	230	320	220	350	560
2-tank system: Volume per tank	l					120	200	280
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
- Adaptation of useful dimensions, loads and pump capacities possible



Processing steps

The processing steps are carried out in one chamber:

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



Options and supplements

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



Smart Cleaning

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



high cleaning performance even
for persistent contaminations

for applications with increased
loads

for applications with high
contamination



Standard

U-shaped special nozzle system and rotating turntable



Brief description

The **Ocean RW** is a universal spray cleaning system with an 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
Operating principle:	Rotating parts carrier with static nozzle system
Number of tanks:	Single-tank or multi-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	mm	950	1,250	1,600	1,950	2,300	2,800
Effective length	mm	770	1,000	1,275	1,545	1,750	2,200
Effective width	mm	770	1,000	1,275	1,545	1,750	2,200
Effective height	mm	750	750	1,000	1,000	1,250	1,500
Load capacity	kg	500	500	750	750	1,000	1,500
1-tank system: Tank volume	l	660	950	1,200	1,650	2,500	4,000
2-tank and 3-tank system: Volume per tank	l	330	475	600	825	1,250	2,000

Other technical data and on-site services on request



Cleaning technology

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



Processing steps

The processing steps are carried out in one chamber:

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



Options and supplements

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



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Variant
Ocean RW for direct loading in a robot cell



Variant
Ocean RW with viewing window at the side and manual cleaning fixture



Variant
Nozzle system individually adapted to the components



Variant
Centre lance for thorough internal component cleaning



Variant
Lowering nozzle frame for different product heights



Variant
Drying nozzle adapted to the component



Variant
Bayonet connection for setting the nozzle frame to two different heights



Variant

Ocean RW with loading through chain conveyor and automatic drive-in and drive-out device. Transverse transport with roller conveyor.



Variant

Ocean RW with automatic drive-in and drive-out device, transverse transport with roller conveyor, loading and unloading with forklift.



Detail

Ocean RW with magnetic conveyor for discharging ferritic swarf from the washing tank



Variant

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



Variant

Ocean RW with extended effective height and hydraulic drive-in and drive-out device



Variant
Ocean RW with central supply for reducing operating costs and centralising maintenance and service points



Variant
Ocean RW with loading portal for unmanned operation



Variant
Ocean RW with scissor lift table and driven chain conveyor as well as loading on both sides and cycled flow



Variant
Ocean RW with platform and automatic drive-in and drive-out device



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