

MecanoLav
Smart Cleaning



MECANOFAST

ADVANCED CLEANING
SOLUTION FOR ROBOTIC CELL

RETHINK YOUR WORKFLOW
WITH MECANOFAST

PRECISION MANUFACTURED
IN FRANCE

EXPERIENCE MODERN ONE-PIECE FLOW CLEANING

SMART CLEANING

Traditional batch cleaning disrupts production flow, resulting in delays and inventory buildup. MecanoFAST takes a distinct approach by adhering to lean manufacturing principles, prioritizing added value and flow optimization.

PRECISION CLEANING AND DRYING



MecanoFAST sets the standard for precision cleaning. Each part is treated individually, ensuring thorough cleaning and drying even in the most challenging areas:

- Target critical areas such as blind holes, threads, and more...
- Perfect drying
- Part exit temperature below 35°C (95°F), allowing, for example, just-in-time dimensional inspection.

TAILORED TO YOUR CLEANLINESS REQUIREMENTS



The part fixture and the cleaning tools are designed in 3D by our engineering department according to the parts drawing. They work closely with production team to provide a tailored solution for your specific needs in intermediate or final cleaning.

MecanoFAST process achieves high levels of particulate cleanliness in accordance with VDA19 / ISO 16232 standards, or specific customer requirements. We support you by setting-up validation trials in our testing facility and analysis laboratory.



EFFICIENT



FAST



ENHANCE TAKT TIME CLEAN & DRY IN A FEW SECONDS

Experience the cutting-edge efficiency of MecanoFAST's One-Piece Flow system. Our innovative approach ensures fast cleaning and drying, completing the process between **20 and 60 seconds** depending on the part type and complexity!

HIDDEN TIME LOADING WITH ROUND TABLE

To enhance productivity, the MecanoFAST can be equipped with a rotary table, ensuring its availability for loading/unloading up to 95% of the time.

Round table position step are defined for each configuration: 2, 3, 4 or even more.

It can also effectively separate the «dirty» and «clean» areas promoting a more organized workflow.

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TAILORED SOLUTIONS FOR YOUR UNIQUE NEEDS

INTEGRATION & ADAPTATION TO PRODUCTION FLOW

UNDER 2M² / 22 FT² FLOOR SPACE

The MecanoFAST system is designed to fit production flow as close as possible to the previous and next operation

- Continuous flow: no buffer
- Loading and unloading at the same position

COST-EFFICIENT SOLUTIONS FOR TOMORROW'S CHALLENGES

When it comes to efficiency and energy-saving, MecanoFAST offers a distinct alternative to traditional one-piece flow cleaning systems such as inline tunnels and carousels **by consuming only 50% the energy and 25% of the water.**

This innovative solution does not only reduces resource consumption but also offers a more compact design. Maintenance is easier with a self-cleaning work chamber, setting it apart from conventional systems that often face issues with clogged drying chambers.



COMPACT



FUTURE PROOF



FUTURE PROOF

To clean multiple parts references, the tools can be versatile.

Otherwise, custom tools can be changed over from one part type to another in a few minutes.

It also facilitates the reconfiguration of the machine for future projects by simply changing the customized tools.

ADAPTABLE WORK CHAMBER

Depending on the application, work chambers can assume various forms such as **horizontal, inclined, vertical, remote, or even multiple** ensuring adaptability to diverse manufacturing needs.



ROBOT CELL PARTS WASHER

A BROAD RANGE OF APPLICATIONS

RELIABILITY REDEFINED



Integrated with premium components, our system offers real-time process and energy consumption monitoring, automatic detergent addition, and programmable partial draining for bath performance stability.

ROBOT FRIENDLY

Thanks to its design and PLC configuration using PN/PN coupler and Profinet interface, MecanoFAST is custom-built for automated production with robotic loading and unloading systems.



Moreover, by using light curtains it allows flexibility to produce in manual mode when necessary. Overall, MecanoFAST offers a user-friendly solution for automated production environments.



RELIABLE



ROBOT FRIENDLY



ENHANCED DEGREASING PERFORMANCE WITH WR

For applications before laser welding or HT, demanding degreasing is required. In response to this need, we have introduced the MecanoFAST WR, which integrates two modules to incorporate a rinsing step within a dedicated work chamber.

This technology guarantees no fluid transfer from the first to the second unit, thereby prolonging bath lifespan and providing optimal and repeatable cleaning results.

COMMON APPLICATION CASES

Very efficient for high production work flow such as :

- Steering systems
- Diesel injection
- Turbocharger housing
- Cylinder body
- Gearboxes
- Air conditioning systems
- E-motors
- And more...



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