

MecanoLav
Smart Cleaning



MAXIMA - MB

**DEGREASING PARTS WASHER
WITH FRONT LOADING**

SINGLE/MULTI TANKS

STAINLESS STEEL STRUCTURE

LARGE AND HEAVY PARTS

DEGREASING HEAVY PARTS

With its 6 standard sizes and numerous customizing options, the MAXIMA-MB is one of MecanoLav's flagship products for batch cleaning of heavy loads. Designed to meet the requirements of a wide range of industrial fields, the MAXIMA-MB stands out for its robustness and durability.



HIGH TREATMENT CAPACITY

Depending on the size, weight and quantity of parts to be cleaned, we offer the MAXIMA-MB in several standard models.

Dimensions range from **800 mm to 2000 mm** in length and width, with a standard useful height of 800 mm, to suit any of your needs.

ERGONOMIC LOADING

The access to the loading station is completely unobstructed, allowing loads to be easily removed from overhead crane or jib crane.

What's more, the **U-shape loading table** optimizes ergonomics while transferring the tray to the work chamber.

DRYING

Depending on needs and parts geometry, a drying step can be integrated at the end of the cycle :

- By **hot air recirculation**
- By **pulsed hot air knives**
- By **compressed air**

Various options are offered to deal with vapor extraction.



EFFICIENT DEGREASING

Working in closed circuit with an integrated filtration, MAXIMA-MB sprays parts to be washed at high flow rates, offering excellent degreasing performance even on dry oils and greases.

For applications requiring a residue-free finish, the machine can integrate **one or more rinsing tanks**.

PROCESS REPEATABILITY

When large quantities of contamination (grease, sludge, oils, resins) quickly saturate the tank, the machine incorporates **reprocessing devices** to isolate these contaminants, thus reducing the intervals between oil changes and guarantee cleaning performance :

- Coalescing oil separator
- Grease separator - Sludge scraper
- Scrolling paper filter



SPECIFICATIONS

		SIZE 8	SIZE 10	SIZE 13	SIZE 15	SIZE 18	SIZE 20
Turntable	mm	800x800	1000x1000	1300x1300	1500x1500	1800x1800	2000x2000
Useful height (extendable)	mm	800	800	800	800	800	800
Loading height	mm	960	960	960	960	1100	1100
Maximum load	kg	1000	1000	1000	1000	2000	2000
Width	mm	1900/2450	2100/3150	2250/3150	2620/3250	2950/3600	3250/3900
Depth	mm	1380	1810	1810	2100	2450	2750
Height	mm	2500	2500	2500	2500	2610	2610
Height with open door	mm	3250	3250	3250	3250	3500	3500
Pump power	kW	4/2x4	4/2x4	7,5/2x7,5	7,5/2x7,5	9,2/2x9,2	11/2x11
Pump flow	l/min	450	450	580	580	700	950
Pump pressure	bar	3,4	3,4	4,5	4,5	4,5	4,5
Tank capacity	litres	350/2x350	450/2x600	600x2x600	800/2x800	1000/2x1000	1200/2x1200
Tank heating power	kW	12/2x12	18/2x18	24/2x24	30/2x30	36/2x36	42/2x42

Our machine sizes can be adapted to specific needs.

AUTOMATION AND ADAPTABILITY

Discover how our know-how transforms your industrial processes thanks to custom-made solutions : automatic loading, custom-made work chamber, specific carrier and special machines...

AUTOMATIC LOADING

Depending on your production flow, Maxima-MB can be integrated with motorized cross conveyors, lift table, or an automatic custom-made loader. The unit can be controlled by the machine's PLC.

Those options allow an **optimal integration in your automates production lines**, ensuring a continuous process and enhancing productivity.



CUSTOM-MADE WORK CHAMBER

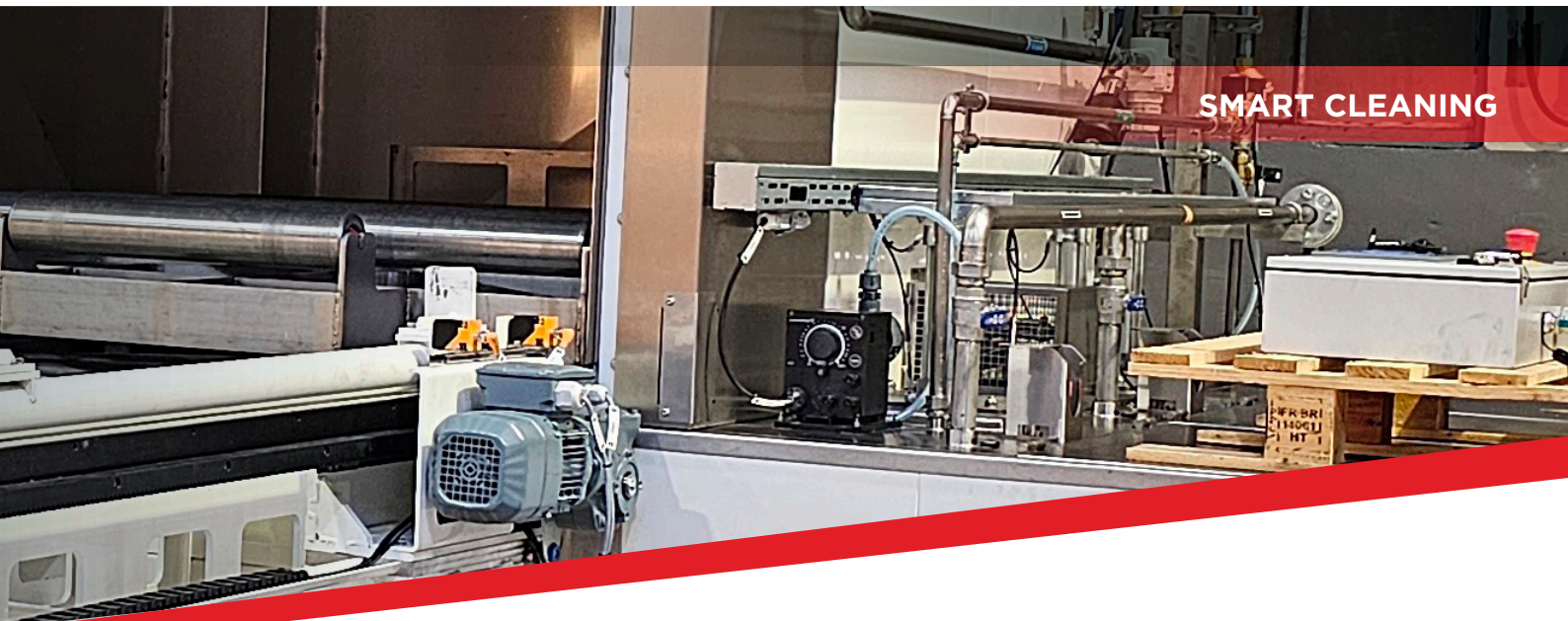
Our design department can create **entirely custom-made solutions** to adapt to your needs.

Dimensions, shapes : each detail is studied and optimised to ensure perfect integration and maximal efficiency. Thanks to this customisable approach, we offer full flexibility to meet the highest requirements of our customers.

DOUBLE WORK CHAMBER

To minimize the **cross-contaminations** and ensure an efficient rinsing, Maxima-MB can integrate a **dedicated second work chamber** to this operation. This also saves time while having an **elevated production rate**.





CUSTOM-MADE WORK PIECE CARRIER

The turn table can be replaced by a **specific work piece carrier**, designed to optimize cleaning and prevent water retention on parts area.

In heat treatment, the basket can directly be integrated into the work chamber without interface. To facilitate unloading with a lift trunk or a loader, the loading station is specifically fitted.

If needed, the work chamber can also integrate a top opening, ensuring direct loading by an overhead crane.



NADCAP STANDARDS

We guarantee a **spotless results on all types of material** (inconel, titanium, aluminum...) while respecting the **NADCAP standards**. Thanks to a continuous control system of the settings, we ensure complete traceability of the process in editing a report after each cycle and recording associated data.

SPECIAL ATEX MACHINES

Our parts washer can be specifically designed to be **integrated in ATEX environments** (explosive atmospheres, gas or dust), and can also operate in complete safety with **low flash point fluids** such as kerosen or diestone.

APPLICATION EXAMPLES

The Maxima-MB operates in sectors such as aircraft, railway, trucks, automotive, general industry, defense or remanufacturing, offering custom-made solutions to each requirement.

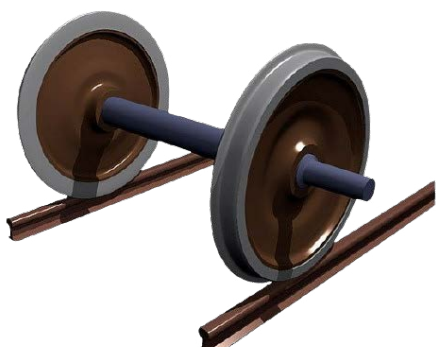
COMMON APPLICATIONS

- After machining or before assembly
- Renovation and maintenance
- Before or after heat treatment
- Before dimensional control or after penetrant testing
- Before painting or stripping

DEGREASING RAILWAY AXLES

A major actor in the **railway sector** has entrusted us with the design of an axles cleaning solution, integrating an **entirely automated process** to optimize its production flow :

- In-pit traversing machine : double door with floor track
- Parts up to 2,5m long and weighing up to 3 tons
- Rate of 40 axles in 7 hours
- Multi-tanks heated by gas burner
- Grease separator and sludge scraper



CLEANING OF VRT HOUSING

A company in the **aeronautical sector** asked us to develop a solution for **interoperation and final cleaning** responding to specific requirements :

- 4 tanks, including 3 rinses for a spotless quality in final cleaning
- Custom-made washing systems and equipment
- Osmosis and ion exchange resins
- Fine filtration on each tank
- Batch traceability

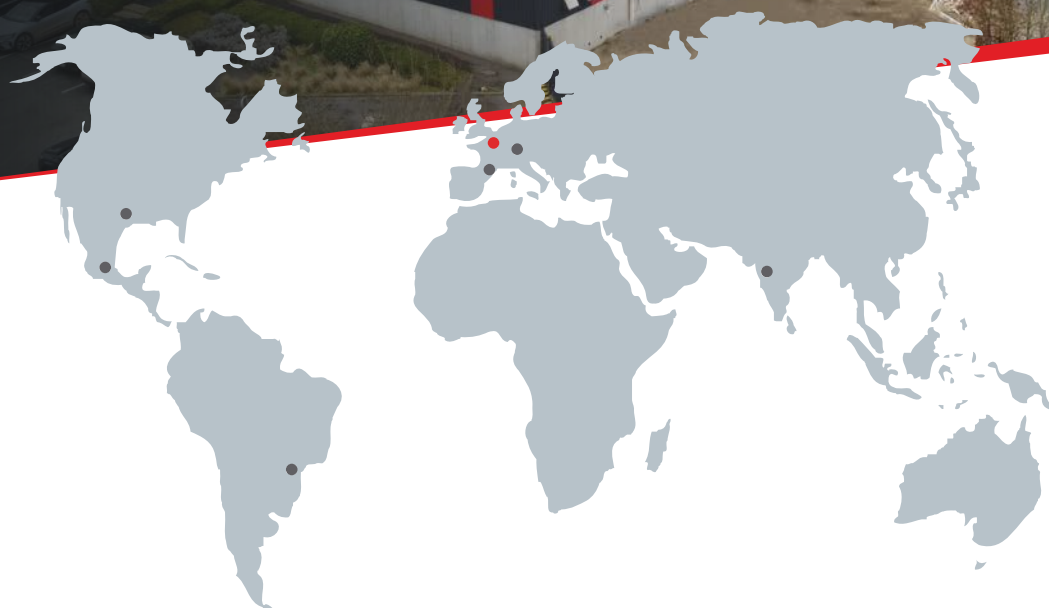


BATCH DEGREASING OF PARTS

A **heat treatment** company called on our expertise to conceive a solution for **degreasing parts after quenching** and ensure a **perfect drying** :

- 3 tanks : 1 cleaning tank and 2 rinsing tanks
- 270 parts each 30 minutes
- Grease separator for the cleaning tank
- Coalescing oil separator for the first rinsing tank





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