

# MAFAC PALMA

Highly effective  
Spray-Flood-Cleaning  
with two tanks.



Water-based cleaning  
systems for industrial  
parts cleaning.

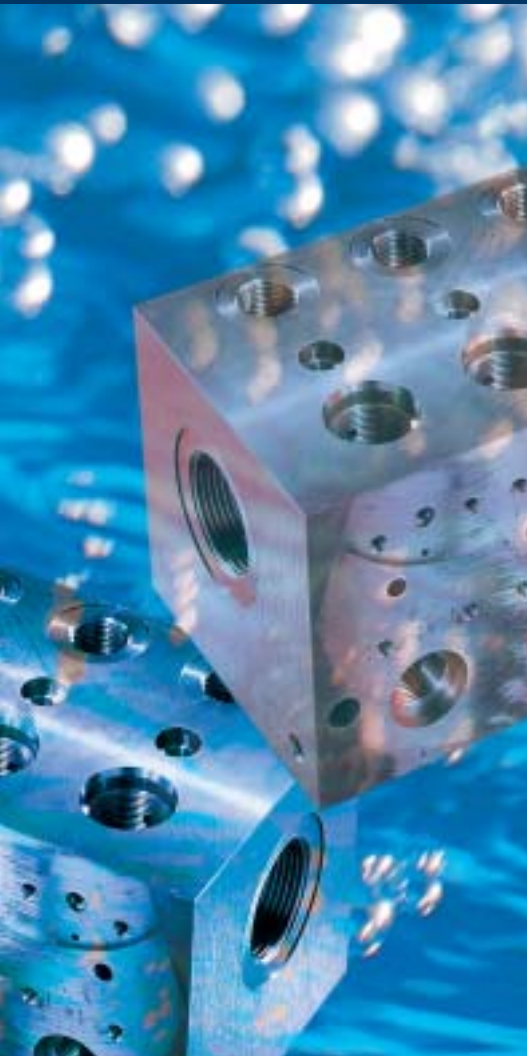
**MAFAC**  
CREATIVE CLEANING

MAFAC  
PALMA



# MAFAC PALMA

## Spraying and flooding in one cleaning process.



With the spray-flood cleaning system PALMA, MAFAC adds another Highlight to the world of industrial parts cleaning.

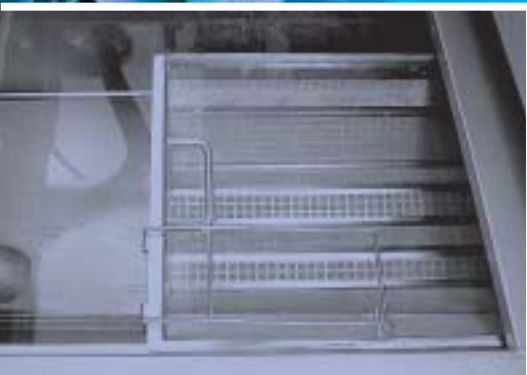
Operating on the water-based principle, the MAFAC PALMA is able to combine spray and flood cleaning during the wet phase. Thus in one process two sophisticated technologies are being used. This combination makes it possible to clean complex and at the same time sensitive parts thoroughly and reliably. For the flooding process the PALMA is equipped with a quick-flood system by which the batch to be cleaned can be flooded to 100 % within 30 seconds. For flooding two medium tanks are at hand with 720 and 600 liters. Like all other MAFAC machines, the PALMA is equipped with the proven and patented process technology that makes the spraying system moving in counter rotation to the rotating basket. By full beam of jets, on-the-spot cleaning as well as surface cleaning of parts is assured. The front of the batch is also

washed thoroughly with an additional full beam of jets angled towards the batch. Thus the efficiency of the cleaning process is further optimized.

For the drying of parts the MAFAC PALMA is equipped with a water vapour condenser and with a hot air pulse blower system.

Keeping with the MAFAC identity the MAFAC PALMA presents itself being extremely compact and stylish and at the same time an innovative design. In contrast to the other machines not only the medium conveying components are made of stainless steel but also parts of the machine frame. Besides that a high-grade insulation guarantees a lower demand for energy.

MAFAC PALMA. The fine solution for demanding cleaning requirements.



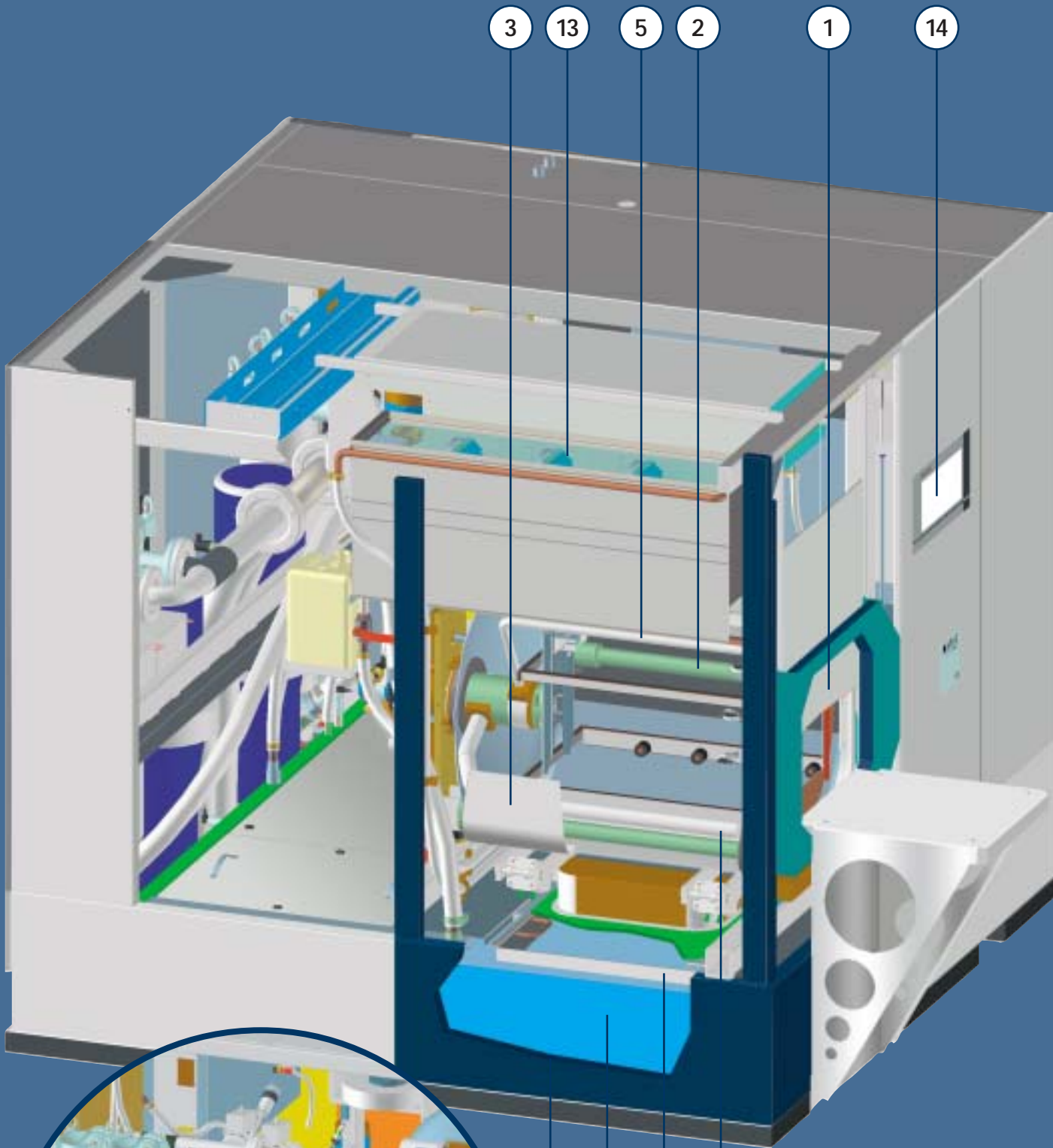
Underwater backflow filter



Treatment cell



Coalescing oil separator



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# MAFAC PALMA

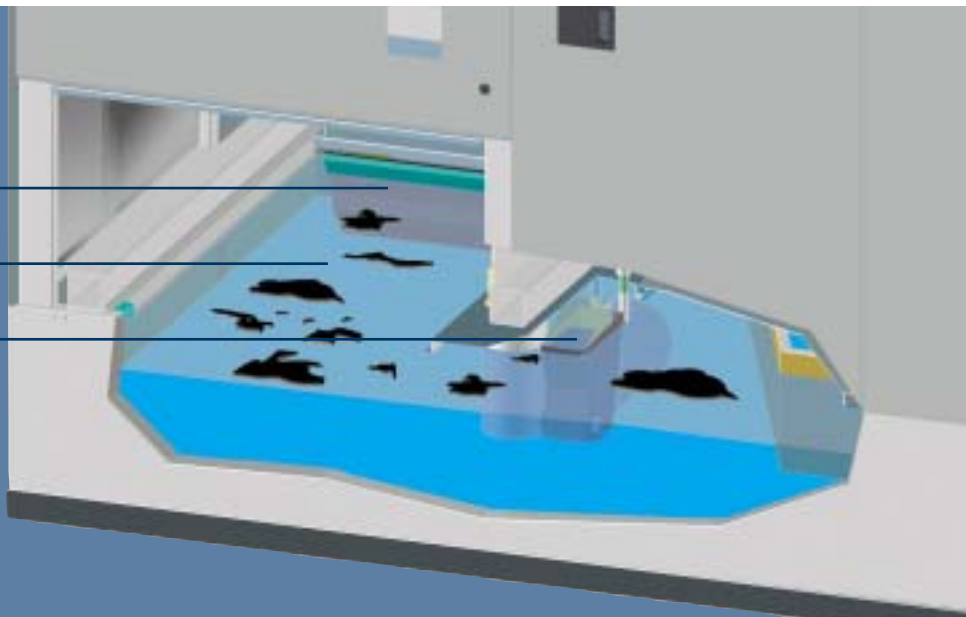
Sophisticated and user-friendly in every detail.



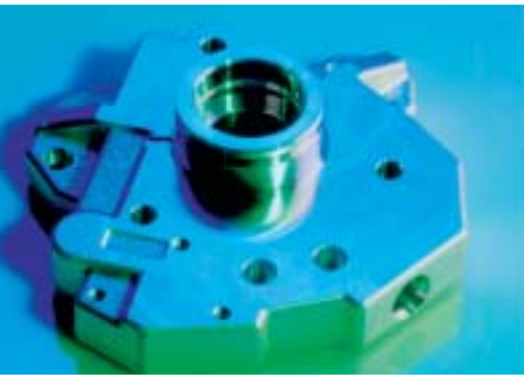
## The MAFAC PALMA in detail:

- 1: Sliding door automatically
- 2: Ultrasonic tubes
- 3: Parabolic mirror for diversion of ultrasonic waves
- 4: One-armed rotating spray-cleaning system with full beam of jets
- 5: One-armed rotating hot air pulse blower system
- 6: Removable underwater backflow filter for fielding of rough dirt particles in medium tank 2
- 7: Tank insulation material
- 8: Medium tank 2
- 9: When quick-flooding, operation of mechanical ultrafine filtration for small particles in main current before cleaning by medium of tank 2
- 10: When quick-flooding, operation of mechanical ultrafine filtration for small particles in main current before cleaning by medium of tank 1
- 11: Pump for quick-flooding, medium tank 1
- 12: Pump for quick-flooding, medium tank 2
- 13: Coalescing oil separator
- 14: Operator control system
- 15: Removable underwater backflow filter for fielding of rough dirt particles in medium tank 1
- 16: Medium tank 1
- 17: Surface weir unit integrated in medium tank 1 for oil separation.

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PALMA



Individual workpieces



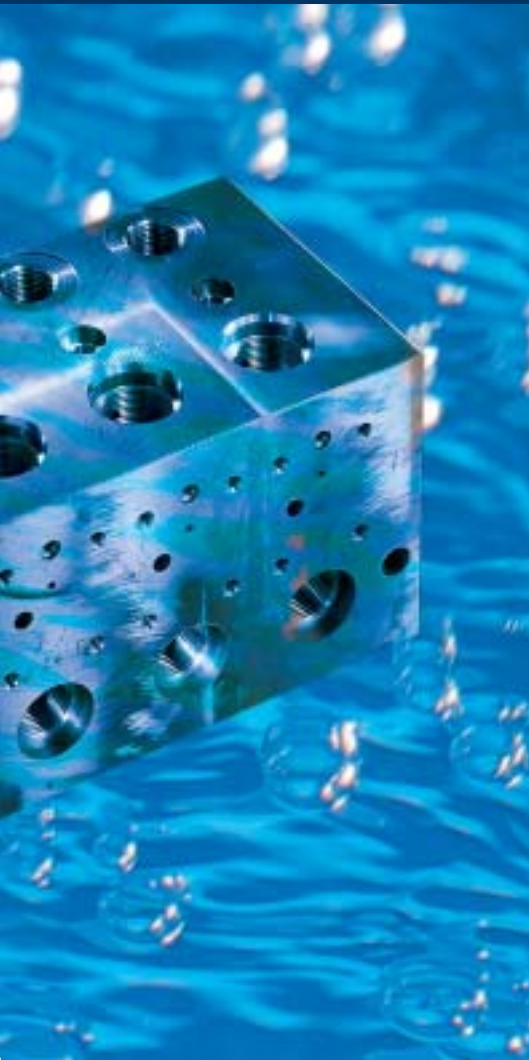
Batches



Bulk materials

# MAFAC PALMA

## For parts cleaning requiring sensitive treatment.



Industrial manufactured parts increasingly require gentle treatment in further use. Here to the aspect of parts cleaning is of high relevance. On the one hand, highly precise parts have to be thoroughly clean and dry, on the other hand the cleaning process should not be too demanding on the parts themselves. For such sensitive tasks the MAFAC PALMA offers best features. The operation of the spray-flood-technology in conjunction with treatment time and temperature makes this cleaning system an optimum for demanding parts. The two tank system thereby offers additional possibilities for individual pre- and after-treatment processes.

In addition to bulk materials, batches or individual workpieces with most complex shapes the MAFAC PALMA gives simple shaped parts a thorough cleaning, too.

Like all other MAFAC machines the PALMA's concept bases on the clear-cut separation of all materials.

For your individual cleaning requirements the MAFAC experts with their versatile experiences are at your disposal at any time. Using your own parts they demonstrate to you the sophisticated benefits of the MAFAC PALMA. For an environmentally friendly and money-saving parts cleaning within your manufacturing process.



MAFAC **KEA**



MAFAC **JAVA**



MAFAC **ELBA**



MAFAC **MALTA**

The MAFAC machinery series for water-based parts cleaning.

From single tank to three-tank systems for sophisticated cleaning demands.

# Specifications of the MAFAC PALMA.

## Spray-pressure pump:

Medium 1:	335 l/min.	4,5 bar	4,0 kW
Medium 2:	300 l/min.	3,5 bar	3,0 kW

## Spray-pressure pump reinforced: (option)

Medium 1:	370 l/min.	5,5 bar	5,5 kW
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## Quick-flooding pump: (option)

Output	<b>Medium 1:</b>		11 kW
Flooding tube	850 l/min.	4,0 bar	
Spraying tube	400 l/min.	6,5 bar	
Output	<b>Medium 2:</b>		11 kW
Flooding tube	850 l/min.	4,0 bar	
Spraying tube	400 l/min.	6,5 bar	

## Fill capacity:

Medium 1:	720 Liter
Medium 2:	600 Liter

## Heating output:

Medium 1 und 2:	15 kW
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## Temperature:

Medium 1 und 2:	max. 75°C
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## Heating-up time:

Medium 1 und 2:	ca. 1,5 h
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## Fine filtration: (option)

	Medium 1 und 2:	100 µm
Quick flooding	Medium 1 und 2:	100 µm
Surface filter	Medium 1 und 2:	150 µm

## Connections:

Electrics	V/Ph/Hz/kVA	400/3/50/45
Pneumatics	Zoll/bar	Rp 3/4, 5-8
Fresh water	Zoll/bar	Rp 3/4, 0,5-10
Waste water	Zoll	Rp 1 1/4
Exhaust	mm	DN 120

## Performance data:

Extraction/condensation, mean flow rate	600 m³/h
Ultrasonic cleaning unit (option)	25 kHz 2 x 1500 W

## Drying system: (option)

Pulse blower system	< 45°C	6 bar	ca. 3100 l/min.
Hot air blower system	250 m³/h	0,015 bar	max. 90°C

## Load capacity:

100 kg

## Dimensions:

Useable space max.	mm B/T/H	480/660/338
Overall dimensions	mm B/T/H	2250/2300/2050
Loading height	mm	860

## Weight:

Without medium	2030 kg
including medium	3350 kg

## Colour:

Housing	Light gray	RAL 7035
	Sapphire blue	RAL 5003
Socket	anthracite gray	RAL 7016

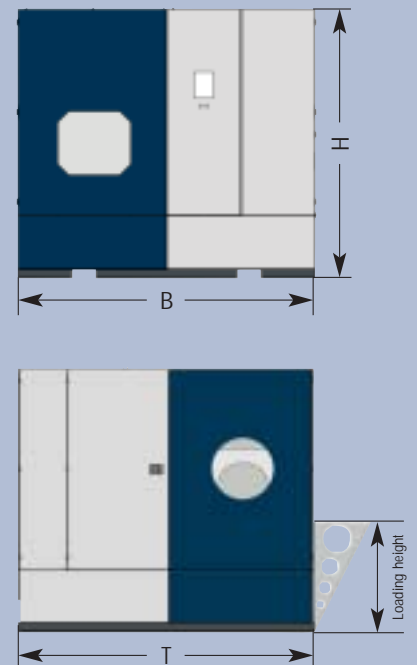
## Standard features:

- Innovative machine design for quick maintenance and easy servicing.
- Front loading with automatically unlocking of sliding door
- EURO standard baskets can be used (600 x 400 x 288)
- Swarf filtration in return flow
- Bath heating with analog temperature control and cut-off
- Thermal insulation of medium tanks
- Water vapor extraction with condensation and droplet separator
- Coalescing oil separator with maximum monitoring of the collecting pan
- Medium fill level control
- Medium conveying components made of stainless steel/plastic
- Two large tanks with 720 and 600 Ltr.
- Spray-flood cleaning with batch 100% floodable

## Standard options:

- Ultrasonic unit
- Adaption of working space up to 660x480x338 [mm]
- Quick-flooding of treatment cell
- Mechanical ultrafine filtration in main current
- Reinforced pump system medium tank 1
- Control of basket rotation speed including rocking
- Program suite for preheating the system as well as for medium care
- Inspection glass with illumination of treatment cell
- Complete demineralizing unit
- Modem for remote diagnosis for the control system
- Rotating hot air pulse blower system
- Low pressure flow drying
- Collecting pan in accordance with WHG (German Water Resources Act)
- Drain pump
- Loading carriage
- Automatical transfer system

## Dimensions:



## Your contact:

# MAFAC

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We would be glad to provide you with information on our other cleaning systems.