

Product Sales Guide MB 70-110-140-180

Hygienic barrier washer-extractors

1. Range



MB70



MB90



MB110



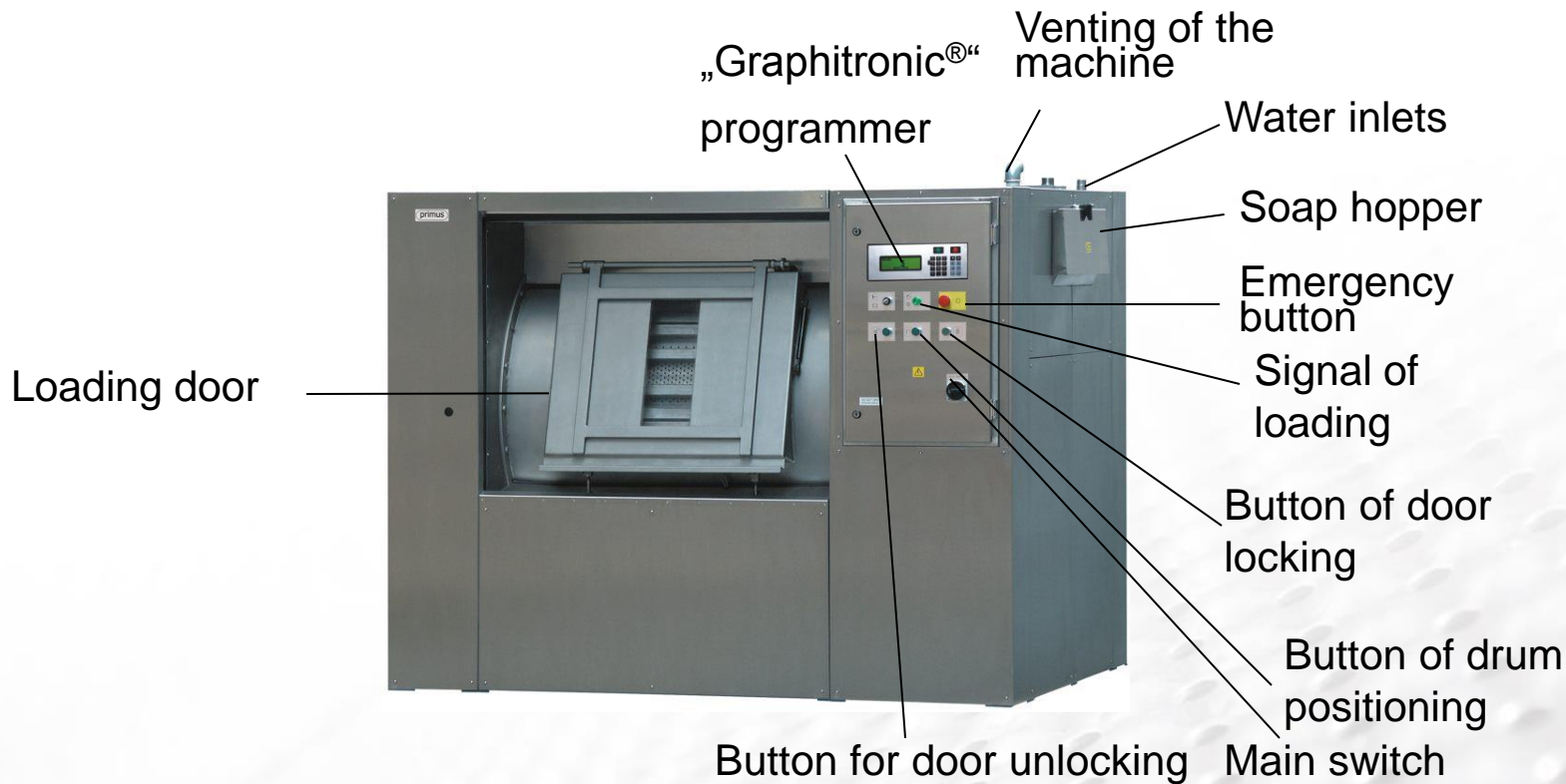
MB140



MB180

Capacity:	70 kg	90 kg	110 kg	140 kg	180 kg
Drum volume (l):	700	900	1100	1400	1800
RPM	800	800	745	720	695
G-factor	360	360	350	350	350
Number of compartments	2	3	3	3	3

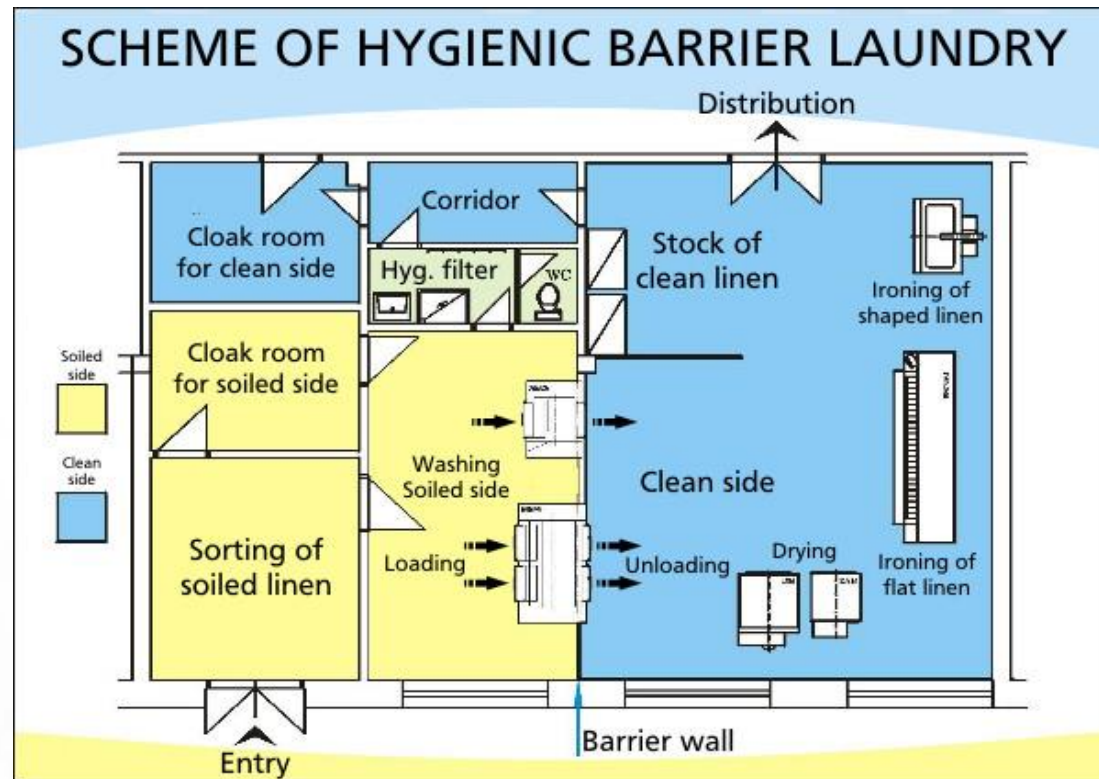
2. Overview



3. Hygienic barrier concept

Corresponds with hygienic normes:

- EN 14065
- HACCP
- RABC



4. Full Range

primus
laundry equipment



MB70



MB90



MB110



MB140



MB180

5. Cabinet

- STANDARD: All pieces in stainless steel
- Pannels are easy to remove:
 - Easy access to all parts
 - Service friendly



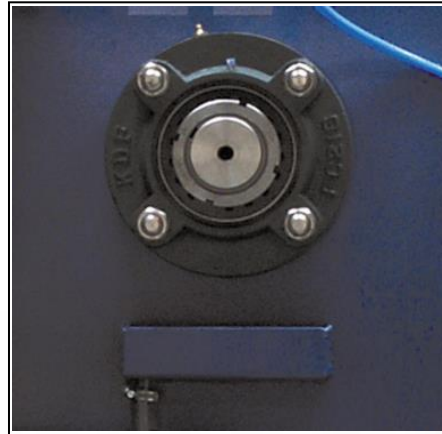
6. Side panels

- High quality stainless steel
- Easy to remove for quick service -
Unlock, tilt and take from the
frame
- Perforations for air cooling
(freq. inv.)
- Asphalt paper on the side:
Absorbes vibrations, heat and
noise



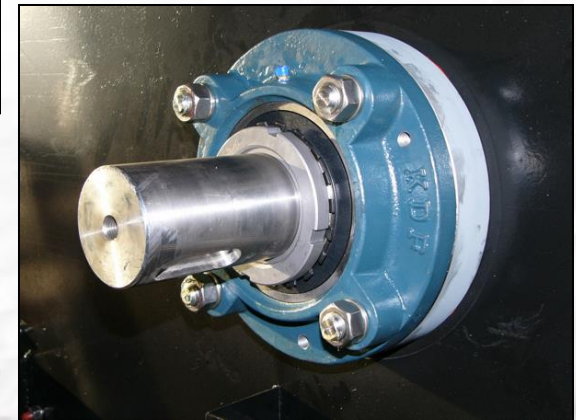
7. Bearing house

- High quality black steel
- Sandblasted and degreased
- Denatop-black painted
- 2 bearings per model



Advantage:

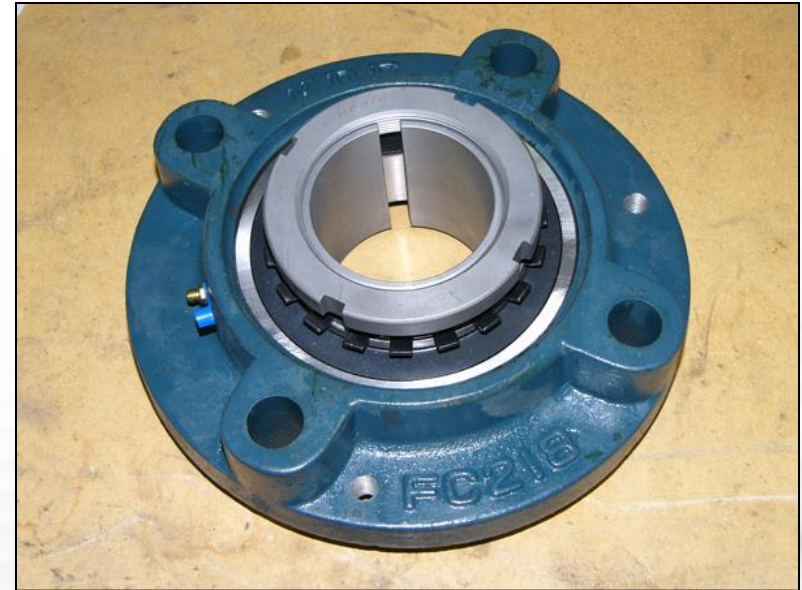
Long life span of the bearings



- High quality bearings: Two lines, tilting spherical rollers

Advantage:

Enables tilting of shafts



9. Drain valve

- Attached to the frame directly under the tub:
 - Lower water consumption
 - No wasted soaps
- Standard 5" drain valves: Fast evacuation
- 90° drain valve: Auto-rinsing effect behind the valve
- Standard 1 drain valve
- Option: 2 drain valves
- 2 drain valves:
Standard 5 ": Water recuperation is possible, option 3 "



10. Suspension

- Suspended on air bags
- Number of bars: 5 bars – MB180 – 3,5bars
- Vibrations damped by shock absorbers
- 4 air bags on MB 70 - 90 – 110 - 140 - 180
- 8 shock absorbers for horizontal and vertical vibrations
- Due to this suspension the machine runs very smoothly



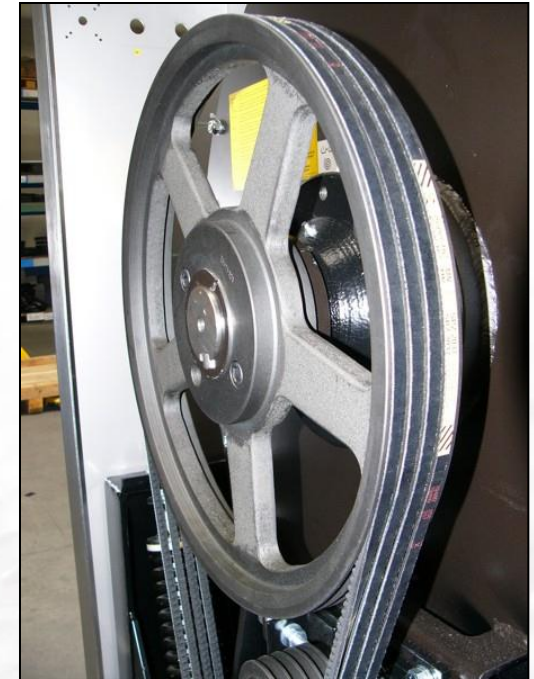
11. Pulleys

- High quality cast steel for long life span
- Degreased and sandblasted
- Painted in black epoxy polyester
- Easy to remove for efficient service



12. V-belts

- 4 on MB 70 , 90 , 110 , 140
- 5 on MB 180
- Easy to remove
- Life span of approximately 5 years



13. Water inlets

- Standard three high volume inlet valves
- Optional two
- Standard cool down
- 1,5" inlet valves
- Standard pneumatic valves
- Copper: Top quality for long life span



14. Water recovery tank

Alternative 1



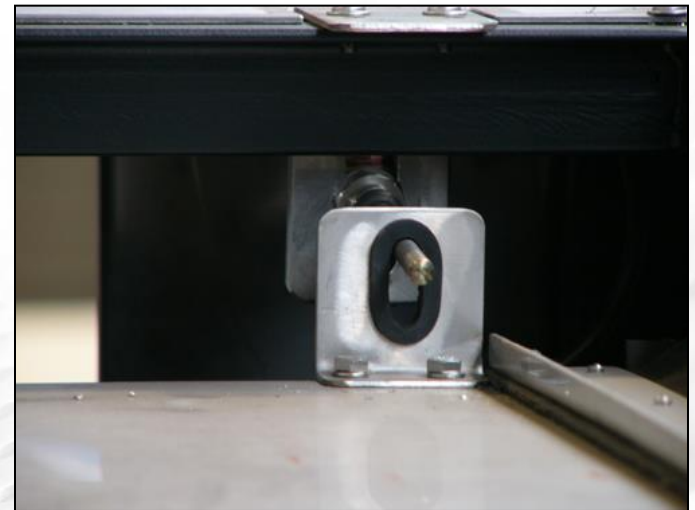
- Machine can be produced with water recovery tank with pump:
 - 2 or 3 compartments
 - it is possible to have 1 heated compartment

Alternative 2

15. Tilt switch

- 2 per machine: one on each side: Total security
- Steel spring is activated during high unbalances
- Tilt-plate opening is covered with plastic to reduce noise
- Is positioned in the factory
- With extreme unbalances:
The machine will repeat maximum 10 times (is not changeable)
- Activated when unbalances occur during:
 - low spin
 - high spin

Note: During installation & service always check if the tilt switches are well positioned



16. Soap box

- Mounted in the right side panel of the machine: Easy access
- MB70, MB90, MB110, MB140 -5 compartments, MB180 -10 compartments
- Volume per cup of 1 liter each
- Detergents are mixed with water and goes into the drum between the outer and inner drum: No detergents directly on to the linen
- Up to 10 liquid soap pumps possible



17. Inner drum

- High quality of stainless steel
- Inner board between two chambers is perforated: **POWERWASH** function
- 3 pockets on MB 110 - 140 – 180 („Y“ pocket)
- 2 pockets on MB 70 - 90 („Pullman“)
- Optional 2 drum pockets on MB 110 - 140
- Optional 3 drum pockets on MB 70 - 90



- more mechanical action
- lower water consumption

- All drums are “statically balanced”
with stainless steel plates



18. Shaft

- Stainless steel
- Shaft goes through the drum in one piece and is welded at both sides: High quality
- Ø shaft 90 mm (MB70/90/110), 100 mm (MB140/180)
- Balanced with stainless steel plates welded on the drum



19. Frame

- High quality carbon steel
- Degreased
- Painted with black KROPAN painting EGALIN for long life span



20. Outer tub

- High quality stainless steel



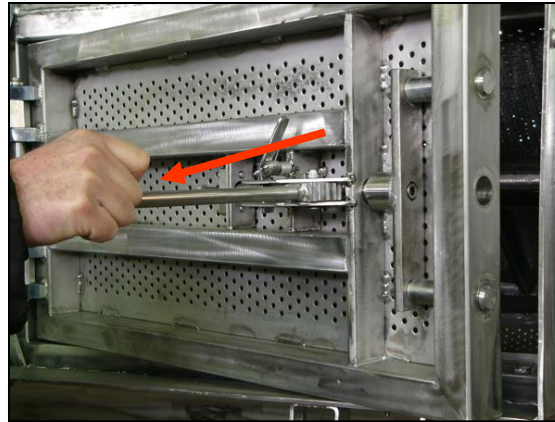
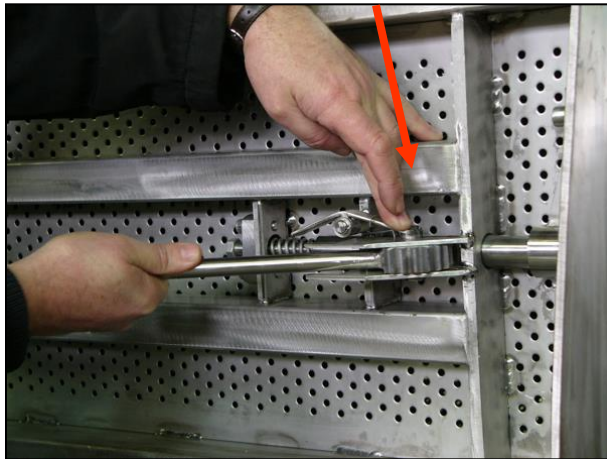
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- A photograph of a white-framed window. The window has a central pane that is slightly offset to the right, revealing a view of a building with a perforated metal screen. The window is set within a white frame that has a decorative, multi-paned appearance. The background is a plain, light-colored wall.



- Extra strong door hinges: Combination of stainless steel and bronze for long life span
- MB90-180: 2 overdimensioned door pumps per door: Enables the door to stay open for easy loading and unloading



23. Door - opening the door

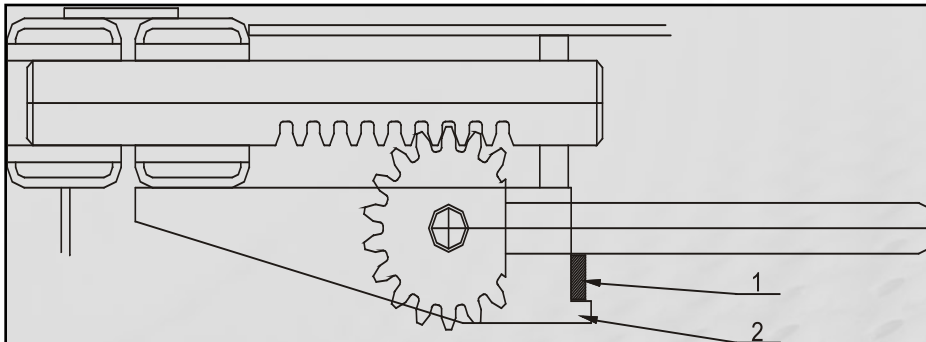


- Please make sure that tap was locked
- Please open the bottom part of the door carefully to prevent injury

23. Door - closing the door

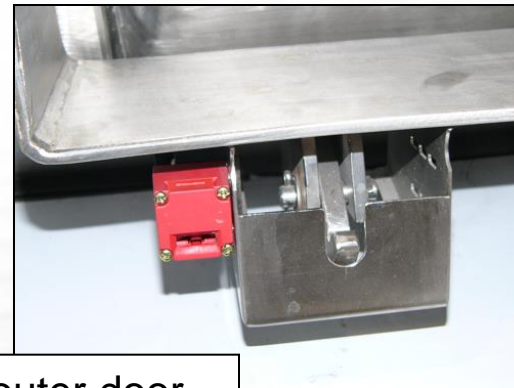
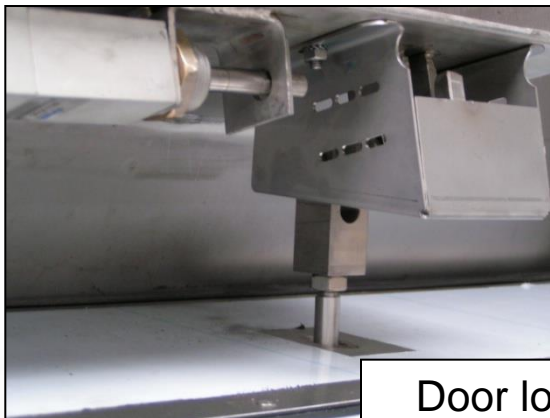
- Always care for the correct closing of the washing drum door and especially for the precise clamping of safety element (1) behind the safety sheet (2)
- Please make sure that drum door was locked

Door lock of inner door



24. Door lock

- Safety door switch
- Strong overdimensioned
- Easy opening

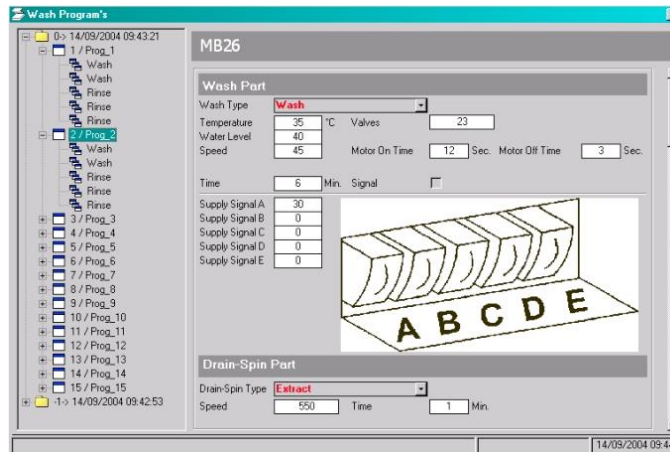


Door lock of outer door

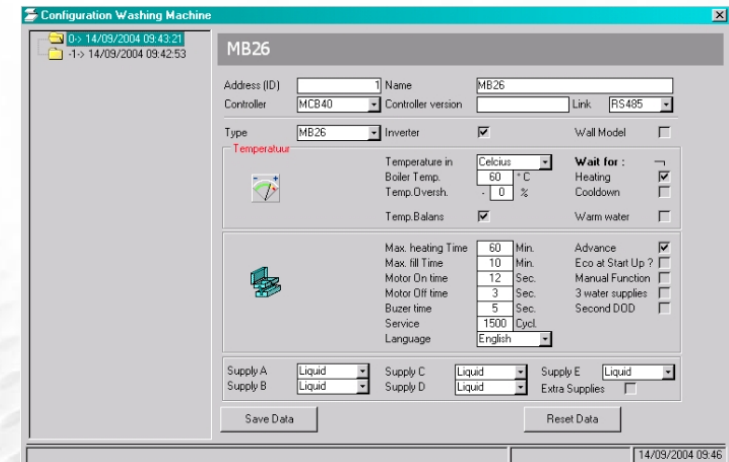
25. Traceability software

Corresponds with certification systems:

- EN 14065
- HACCP
- RABC



- Setting the washing cycle parameters



- Setting the washing machine parameters

24. Graphitronic® microprocessor

- Full Control Wash computer with graphic display
- 99 programmes
- More than 20 languages
- Including special alphabets like cyrilics, chinese, arabian, corean etc.



- Networking available
- Traceability available – Trace-tech®
- Weighing system – Optiload®
- Available segments per program:
 - Wash
 - Cool down
 - Rinse
 - Soak
 - Spray
 - Drain
 - Extract
 - No drain
 - Static drain (drain valve open, no motor action)

26. Graphitronic® microprocessor

- Standard inverter driven:
 - lower noise level
 - goes smoothly from wash to spin cycle
 - washes difficult loads

RPM's

	MB 70	MB 90	MB 110	MB 140	MB180
Washing	36	36	35	33	36
Distribution	60	60	60	60	55
Spin	800	800	754	720	695
G factor	360	360	350	350	350

- Radial seal (mat. VITON) for long life span
- Combination of ceramic material
- Radial sealing seals on the ceramic ring on the shaft

- Ideal seal



28. Crating

- Machines are crated in high quality crates for easy transport
- Crates are clearly labeled with necessary information
- Option: Wooden case



- MB machines correspond to all CE and EMC directives
- Noise level below 72 dB
- Standard: Two emergency buttons: 1 on the clean side, 1 on the unclean side
- One mainswitch
- Buzzer at the end of the cycle

30. Installations feet

- Machine can be picked up easily through the installation foot for easy installation, transport, loading, etc.



31. Heating

Electrical additional heating

	MB70	MB90	MB110	MB140	MB180
kW	54/72	54/72	72/96	72/96	-

- Easy access for quick service
- Short washing programs

Steam heating

- Steam injection is placed in heating chamber under the tub
- Required of bars: 6 - 8 bar

33. Voltages

	MB70/90/110/140/180
Possible voltage	380-415V 3AC 50/60Hz
	220-240V 3AC 50/60 Hz
	208-240V 3AC 50/60Hz
	440-480V 3AC 50/60Hz
	200V 3AC 50/60Hz

34. Net weight

	MB70	MB90	MB110	MB140	MB180
Nett weight	2600	2810	2990	3550	4990

- Oversized components
- Long life span
- Quality without compromise

35. Markets



Hospitals



Nursing homes



Prisons



Nuclear power plants



Sterile environments



Clean room industry

- Food processing

- Pharmaceutical industry

- Cosmetic companies

36. Manufacturer

- MB's designed and produced in-house
- High quality control
- Machines are tested with linen



1. Power Wash

- ✓ more mechanical action
- ✓ lower water consumption

2. Graphitronic

- ✓ Full Control Wash computer with graphic display
- ✓ 99 programmes
- ✓ More than 20 languages

3. Door lock

- ✓ Safety door switch
- ✓ Strong overdimensioned
- ✓ Easy opening

4. Stainless steel cabinet,

- ✓ High quality stainless steel
- ✓ Easy access to all parts
- ✓ Service friendly

5. Suspension

- ✓ Suspended on air bags
- ✓ 8 shock absorbers for horizontal and vertical vibrations

Thank you for your attention