

Loading trolleys & accessories

for Uniclean® ML - Multi Line



Sophisticated trolley systems for flexible loading

The right solution for every requirement

The MMM loading trolley and accessories range for the Uniclean® ML washer-disinfector was developed in close co-operation with medical device manufacturers and users in hospitals. This practicality is readily apparent. The result is a flexible range of loading trolleys with suitable insert modules for cleaning large-volume medical products right through to surgical instruments.



The loading trolleys from MMM will impress with their:

- Modular solutions for ergonomic and safe handling of loads for all applications
- Stable tubular-frame construction
- Open design for perfect cleaning and drying
- Easy and secure adjustment of the loading levels
- Large CoolTouch handles
- Easy to push with no physical effort required
- Impact protection disks on all four sides of the trolley frame
- Self-draining layout of the water supply pipe of the instrument loading trolley
- Versatile accessories to suit a wide variety of loaded items, including mixed items

Trolley material: Stainless steel 1.4301 (AISI 304)

Surface finish: glass bead blasted

Castors: Polyamide (PA), hard, non-chalking, machine-proof, roller bearings, 2 steering castors plus 2 steering castors with locks



Table of contents

Loading trolleys for processing ...

Metal sterile material containers with lids	4 - 5
Boxes and other kinds of items without lids	6
OR shoes	7
Plastic boxes with lids	8
Plastic boxes with an integrated 2-piece folding lid	9
Plastic drawers, inserts and their dividers.	10
Assorted goods and instruments	11
Insert drawer frames for BW Flex trolleys and BWIs	12 - 13
Single levels for all BW Flex trolleys	14 - 16
Insert drawer frames for BWIs.	17
Additional components for BW Flex trolleys for containers	17
Max. number of trolleys per chamber	18
Max. number of treated items per trolley	18
Load configurations	19 - 21
Examples of insert modules for BW Flex trolleys & BWI docking sequence	23



Plastic boxes



Wire mesh baskets



OR shoes



Sterile material containers with lid and filter



Kidney basins



Instrument trays




Loading trolleys for processing metal sterile material containers with lids as per EN 868.

Suitable for all standard makes and dimensions. This trolley can also be used for cleaning plastic boxes with lids. Thanks to its modular construction, it can be flexibly adapted to suit different makes, types and sizes. The rack for holding containers or boxes has a support rod, which can be adjusted for the container depth with spring locks. The rack has a plastic strip at the applicable parts to protect the edges of the container in the area of the lid.



The lids are stored in the lid rack in the maximum possible tilted position to enable water to drain off easily for faster drying. In the case of the 'BW Flex UML - container with lid and filter area' trolley, the lid rack contains an additional space for holding various frames, e.g. a frame for demountable lid filters. The frame for lid filters can be ordered separately. The trolley can also be used to hold and treat stainless steel wash bowls.


BW Flex 1500 UML – container with lid		MMM No.: 010527224		
Trolley capacity	16 containers (1 STU) with lids (arranged vertically), the capacity is reduced with a horizontal arrangement			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1780 x 835 x 1420			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				






BW Flex 1500 UML – container with lid and filter area		MMM No.: 010521219		
Trolley capacity	16 containers (1 STU) with lids (arranged vertically), the capacity is reduced with a horizontal arrangement			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1780 x 835 x 1420			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				



BW Flex 1100 UML – container with lid		MMM No.: 010527225		
Trolley capacity	12 containers (1 STU) with lids (arranged vertically), the capacity is reduced with a horizontal arrangement			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1780 x 835 x 1120			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				



BW Flex 1100 UML – container with lid and filter area		MMM No.: 010521220		
Trolley capacity	12 containers (1 STU) with lids (arranged vertically), the capacity is reduced with a horizontal arrangement			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1780 x 835 x 1120			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				



Loading trolley for processing boxes and various materials of different kinds without lids.




Suitable for materials that can be machine-processed and that fit into the racks. Thanks to its modular construction, the loading trolley can be adapted flexibly to different makes, types and sizes. The rack for holding containers or boxes has a support rod, which can be adjusted for the container depth with spring locks. The rack has a plastic strip at the applicable parts to protect the edges of the container in the area of the lid. The trolley can also be used to hold and treat stainless steel wash bowls.


BW Flex 1500 UML – container without lid		MMM No.: 010522254		
Trolley capacity	Depends on the items being treated			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1915 x 835 x 1420			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				



Loading trolley for processing OR shoes.




The loading trolley has been designed to allow OR shoes to be easily inserted on the various rack levels. Ideally, the shoes should be oriented with the sole facing inwards. The trolleys can be easily extended with an additional level for OR shoe insoles.


BW Flex 1500 UML – 40 pairs of OR shoes		MMM No.: 010494310		
Trolley capacity	40 pairs of OR shoes			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1900 x 835 x 1420			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				



BW Flex 1100 UML – container without lid		MMM No.: 010522255		
Trolley capacity	Depends on the items being treated			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1915 x 835 x 1120			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				







BW Flex 1100 UML – 28 pairs of OR shoes		MMM No.: 010506506		
Trolley capacity	28 pairs of OR shoes			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1900 x 835 x 1120			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				







Loading trolley for processing plastic boxes with lids.

This trolley is intended for processing plastic boxes that are higher than 300 mm and thus do not fit into the BW Flex trolley for instrument containers. It can accommodate plastic boxes of various sizes up to a maximum length of 810 mm along with their removable lids. Thanks to its modular construction, the loading trolley can be adapted flexibly to different makes, types and sizes. The loading trolley has been designed to allow it to be configured to the operator's requirements on site.

BW Flex 1500 UML – boxes with lid		MMM No.: 010498498		
Trolley capacity	Depends on the plastic boxes used			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1780 x 835 x 1420			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				






BW Flex 1100 UML – boxes with lid		MMM No.: 010508636		
Trolley capacity	Depends on the plastic boxes used			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1780 x 835 x 1120			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				







Please note! Plastic boxes and their lids can only be dried to a limited extent due to the material and many supporting ribs. A special lid rack is necessary for boxes larger than 600 mm and smaller than 820 mm.

Loading trolley for processing plastic boxes with an integrated 2-piece folding lid.

The lid cannot be removed. The loading trolley has been designed to allow it to be configured to the operator's requirements on site.

BW Flex 1500 UML – boxes with folding lid		MMM No.: 010498502		
Trolley capacity *	12 boxes with integrated folding lid and outer dimensions H x W x D (mm): 410 x 610 x 320. The capacity can be higher with smaller boxes.			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1780 x 835 x 1420			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				







BW Flex 1100 UML – boxes with folding lid		MMM No.: 010530062		
Trolley capacity *	8 boxes with integrated folding lid and outer dimensions H x W x D (mm): 410 x 610 x 320. The capacity can be higher with smaller boxes.			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1780 x 835 x 1120			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				

Please note! Plastic boxes and their lids can only be dried to a limited extent due to the material and many supporting ribs. * As there are a wide variety of box sizes on the market, these capacity figures are illustrative only. Further sizes are available on request.

Loading trolley for plastic drawers, inserts and their dividers.

The loading trolley has been designed to allow it to be configured to the operator's requirements on site.

BW Flex 1500 UML – inserts + dividers		MMM No.: 010498506		
Trolley capacity	Depends on the plastic boxes used			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1780 x 835 x 1420			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				



Please note! The plastic drawers can only be dried to a limited extent due to the material and design.

Loading trolley for processing various materials and instruments.

This loading trolley is characterized by its hygienic design. All tubes in contact with the product, including rotating arms, are round tubes. The tubes are tilted to the lowest point to ensure complete drainage.

BWI-4: 4 levels and 5 pivoting wings		MMM No.: 010497064		
Trolley capacity	Variable - e.g.: max. 24 DIN instrument trays (254 x 485 x 50/70 mm) or max. 12 instrument containers (1 STU)			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1958 x 860 x 1107			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				



BWI-5: 5 levels and 6 pivoting wings		MMM No.: 010487105		
Trolley capacity *	Variable - e.g.: max. 30 DIN trays (254 x 485 x 50/70 mm) or max. 15 ISO trays (345 x 485 x 50 mm)			
Trolley material	Stainless steel 1.4301 (AISI 304)			
Surface finish	Glass bead blasted			
Castors	Machine-proof PA, abrasion-resistant, 2 steering castors, 2 steering castors with full locks, wheel diameter 125 mm			
Outer dimensions H x W x D (mm)	1958 x 860 x 1107			
	ML 3120	ML 2220	ML 1620	
Capacity/machine type				





Please note! OR shoes must not be loaded because the fluff will block the spray arms very quickly.





Insert drawer frames for BW Flex containers with and without lids and for BWIs



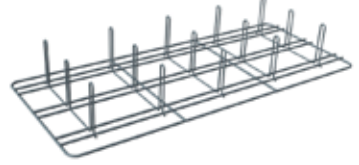
BWI lid frame		MMM No.: 010506611
Capacity	3 lids of size 1 STU (or 2 of size ½ STU)	
Outer dimensions H x W x D (mm)	221 x 201 x 450	
Suitable for	BWI-4, BWI-5	

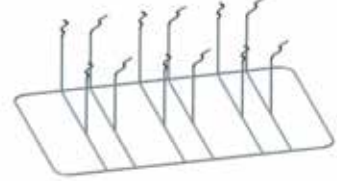
Insert module for kidney basins / OR shoe insoles		MMM No.: 010109343
Capacity	10 units	
Outer dimensions H x W x D (mm)	590 x 250 x 115	
Suitable for	BW Flex Container, BWI-4, BWI-5	


Insert module for OR shoes up to size 42		MMM No.: 010109348
Capacity	10 shoes	
Outer dimensions H x W x D (mm)	590 x 250 x 230	
Suitable for	BW Flex Container	


Insert module for OR shoes up to size 48		MMM No.: 010109347
Capacity	6 shoes	
Outer dimensions H x W x D (mm)	590 x 250 x 173	
Suitable for	BW Flex Container	



Insert module for OR lamp handles		MMM No.: 010109346
Capacity	15 units	
Outer dimensions H x W x D (mm)	590 x 250 x 115	
Suitable for	BW Flex Container, BWI-4, BWI-5	

Insert module for 1L measuring jugs		MMM No.: 010486454
Capacity	6 units of size 1 liter	
Outer dimensions H x W x D (mm)	580 x 380 x 203	
Suitable for	BW Flex Container, BWI-4, BWI-5	

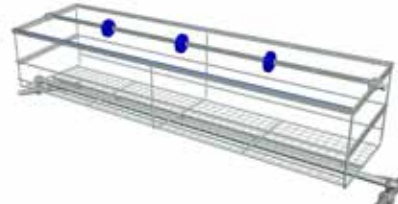
Rack for container filters 1500 – 32 units		MMM No.: 010506612
Capacity	32 units	
Outer dimensions H x W x D (mm)	700 x 240 x 200	
Suitable for	BWI-4, BWI-5, BW Flex 1500	

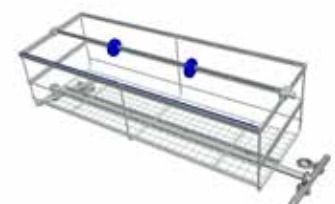
Rack for container filters 1100 – 24 units		MMM No.: 010512882
Capacity	24 units	
Outer dimensions H x W x D (mm)	700 x 180 x 200	
Suitable for	BWI-4, BWI-5, BW Flex 1100	





Single levels for all BW Flex trolleys




Level rack for BW Flex 1500 Container UML		MMM No.: 010521217
Capacity	4 units (max. when vertically aligned)	
Outer dimensions L x W x H (mm)	1400 x 320 x 372	
Suitable for	BW Flex 1500	


Level rack for BW Flex 1100 Container UML		MMM No.: 010521218
Capacity	3 units (max. when vertically aligned)	
Outer dimensions L x W x H (mm)	1100 x 320 x 372	
Suitable for	BW Flex 1100	


Level rack for BW Flex 1500 with subdivision		MMM No.: 010521781
Capacity	4 units (max. when vertically aligned)	
Outer dimensions L x W x H (mm)	1400 x 320 x 372	
Suitable for	BW Flex 1500	


Level rack for BW Flex 1100 with subdivision		MMM No.: 010486454
Capacity	3 units (max. when vertically aligned)	
Outer dimensions L x W x H (mm)	1100 x 320 x 372	
Suitable for	BW Flex 1100	

Lid frame for BW Flex 1500 UML with support surface		MMM No.: 010512785
Capacity	16 units	
Outer dimensions L x W x H (mm)	1400 x 707 x 264	
Suitable for	BW Flex 1500	




Lid frame for BW Flex 1100 UML with support surface		MMM No.: 010512786
Capacity	12 units	
Outer dimensions L x W x H (mm)	1100 x 707 x 264	
Suitable for	BW Flex 1100	


Lid frame 1500 UML without support surface		MMM No.: 010522990
Capacity	16 units	
Outer dimensions L x W x H (mm)	1400 x 707 x 255	
Suitable for	BW Flex 1500	

Lid frame 1100 UML without support surface		MMM No.: 010522991
Capacity	12 units	
Outer dimensions L x W x H (mm)	1100 x 707 x 255	
Suitable for	BW Flex 1100	



Rack for oversize lids BW Flex UML		MMM No.: 010127560
Capacity	4 units (max. 810 mm long)	
Outer dimensions L x W x H (mm)	210 x 840 x 132	
Suitable for	BW Flex 1500 + 1100	

Level for OR shoes BW Flex 1500 UML		MMM No.: 010512781
Capacity	10 units	
Outer dimensions L x W x H (mm)	1400 x 326 x 365	
Suitable for	BW Flex 1500	



Single levels for all BW Flex trolleys

Level for OR shoes BW Flex 1100 UML		MMM No.: 010512786
Capacity	7 units	
Outer dimensions L x W x H (mm)	1100 x 326 x 365	
Suitable for	BW Flex 1100	
Level for OR shoe insoles BW Flex 1500		MMM No.: 010127240
Capacity	20 insoles per level up to size 47	
Outer dimensions L x W x H (mm)	1316 x 250 x 115	
Suitable for	BW Flex 1500	
Level for OR shoe insoles BW Flex 1100		MMM No.: 010528204
Capacity	10 insoles per level up to size 47	
Outer dimensions L x W x H (mm)	1016 x 250 x 115	
Suitable for	BW Flex 1100	
Level hooks 1500 for BW Flex UML		MMM No.: 010512783
Capacity	Depends on the box size	
Outer dimensions L x W x H (mm)	1400 x 359 x 100	
Suitable for	BW Flex 1500	
Level hooks 1100 for BW Flex UML		MMM No.: 010512784
Capacity	Depends on the box size	
Outer dimensions L x W x H (mm)	1100 x 359 x 100	
Suitable for	BW Flex 1100	

Insert drawer frames for BWIs

Insert modules for bowls 125		MMM No.: 010109344
Capacity	15 units	
Outer dimensions L x W x H (mm)	590 x 370 x 125	
Suitable for	BWI-4, BWI-5	
Insert modules for bowls 200		MMM No.: 010109345
Capacity	6 units	
Outer dimensions L x W x H (mm)	590 x 370 x 125	
Suitable for	BWI-4, BWI-5	

Additional components for BW Flex only – containers with and without lid

Subdivision module container rack BW Flex 1500		MMM No.: 010521554
Capacity	max. 4 units, plus 4 additional small containers if required	
Outer dimensions L x W x H (mm)	1214 x 320 x 50	
Suitable for	Retrofitting to a BW Flex 1500	
Note: Illustration shows installed subdivision module (blue plastic parts).		
Subdivision module container rack BW Flex 1100		MMM No.: 010521556
Capacity	max. 3 units, plus 3 additional small containers if required	
Outer dimensions L x W x H (mm)	914 x 320 x 50	
Suitable for	Retrofitting to a BW Flex 1100	
Note: Illustration shows installed subdivision module (blue plastic parts).		

Examples of possible load configurations

Max. number of trolleys per chamber

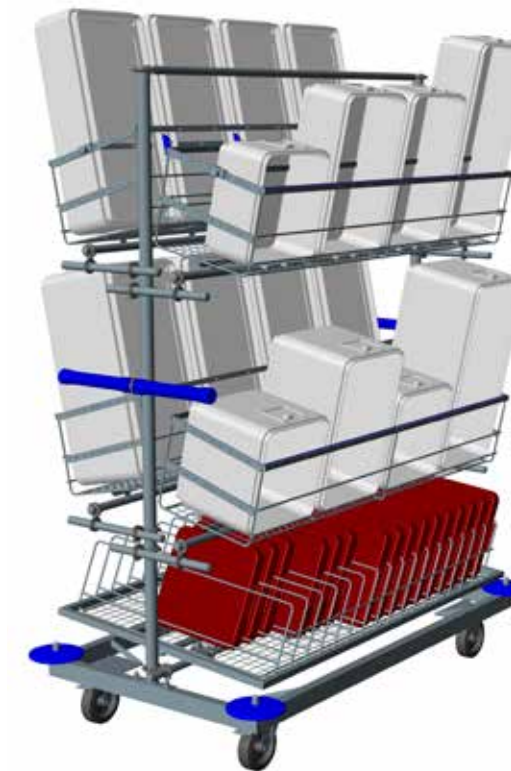
Trolley type	ML 3120	ML 2220	ML 1620
Transport trolley with double doors for 6 STU			
Transport trolley with double doors for 9 STU			
BW Flex 1100 UML			
BW Flex 1500 UML			
BWI-5 loading trolley for instruments			
BWI-4 loading trolley for containers, boxes and instruments			
OR table overlays			

A maximum loading height of 1950 mm applies to all Uniclean® ML chamber sizes and trolley variants.

Max. number of treated items per trolley

Item to be treated	BW Flex 1500	BW Flex 1100	BWI-5	BWI-4
Instrument container with lid (1 STU)	max. 16 units	max. 12 units	6 units, or less	12 units
OR shoes	40 pairs	28 pairs	n.a.	n.a.
Wash bowls Ø 300	32 units	24 units	60 units	48 units
Plastic boxes	Depends on type and size			
Surgical instrument trays	n.a.	n.a.	30 trays	24 trays

BW Flex 1500 UML – container without additional support surface in the lid rack



Sterile goods container with lids



Mixed load of sterile material containers with bowls and kidney basins

BW Flex 1500 UML – container with lid and filter area



Sterile material containers with lids and filters



Plastic boxes with lids

Examples of possible load configurations

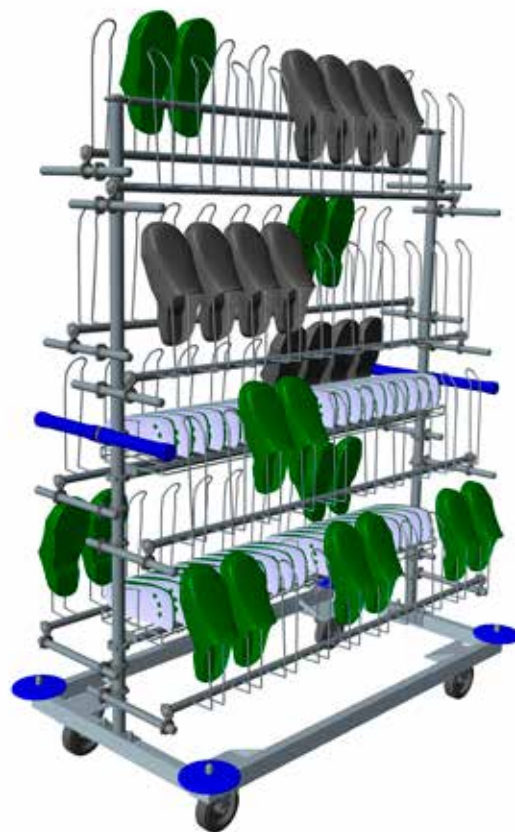
□ BW Flex 1500 UML – container without lid



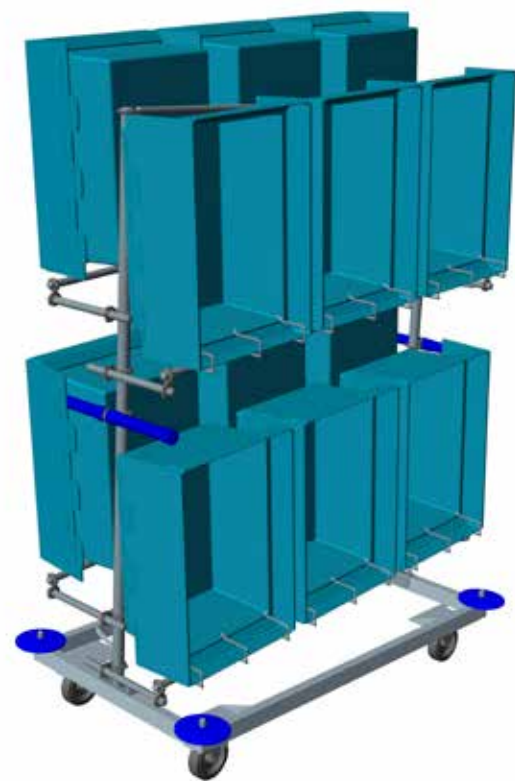
Load of wire mesh baskets



Plastic boxes with integrated, non-removable double folding lid (pharmacy boxes)



40 pairs of OR shoes with level for insoles



Deeper plastic boxes with integrated, non-removable double folding lid (pharmacy boxes)

□ BWI-4



Load of 24 instrument trays



Mixed load with containers and lids, kidney basins, bowls, instrument trays

□ BWI-5



Load of 30 instrument trays



Mixed load of instrument trays, containers and lids



□ BW Flex

The versatile "BW Flex" loading trolley can be configured, using various insert modules and levels, to suit a variety of types of items to be treated, in particular sterile material containers, plastic boxes, OR shoes, etc.

Examples



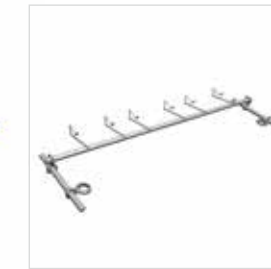
Lid frame



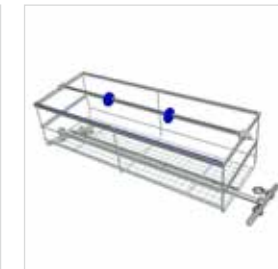
Lid frame with support surface + filter insert



Filter insert



Level with hooks



Level with rack



Level for OR shoes

□ BWI

To efficiently and reliably process surgical instruments in a large chamber WD, it is necessary to precisely and securely couple the water supply nozzle with the loading trolley for instruments (BWI).



Docking sequence



Closed position without BWI



Open position for docking the BWI



BWI in position



BWI docked



MMM Group

MMM has been operating worldwide as one of the leading system providers in the service of health since 1954.

With a complete range of products and services relating to all aspects of cleaning, disinfection and sterilization systems for the areas of **Healthcare** and **Life Science**, MMM has positioned itself as a crucial quality and innovation driver in the German and international market.

Our products are individually adapted to the requirements of our customers all over the world. The high vertical range of manufacturing in our production plants ensures that we fulfill the strictest demands of quality in the medical technology sector. More than 1100 employees apply their expertise and dedication to the mission of the MMM Group: **Protecting human health.**



MMM Münchener
Medizin Mechanik GmbH
Sammelweisstraße 6
82152 Planegg / Munich, Germany
Phone: +49 89 89918-0
Fax: +49 89 89918-118
www.mmmgroup.com

