

INSTRUCTION MANUAL







Case Carts Usage and Maintenance



Read and understand all of the instructions and safety information in this manual before operating this product.



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DESCRIPTION OF PRODUCT

The products covered in this manual are: closed and open case carts, and vertical handle case carts

PURPOSE OF THIS MANUAL

This manual covers case cart use, surfaces care and cleaning and parts maintenance.

KEEP THIS MANUAL



Case Cart Types



Closed Case Cart - for securely and sterilely transporting instruments and surgical supplies



Open Case Cart - for transporting or storing hospital supplies



Vertical Handle Case Cart - for easier movement of large cabinets



Standard Features (Closed Carts)

Closed case carts come standard with:

- Fully-welded construction
- Sound-proofed tops and doors
- 6" high temp stainless steel casters, three swivel and one fixed directional lock
- Roll out, adjustable, perforated stainless steel shelves
- Full wrap-around non-marring bumper
- Positive lock door latches
- 8-1/2" x 11" card holder
- Exterior Push Handle
- Tamper Evidence Security Tabs

Optional Features of the Closed Case Cart:

- No Shelves
- Adjustable Solid Shelf (non roll out)
- Adjustable Perforated Shelf (non roll out)
- Adjustable Perforated roll out shelf
- Adjustable Solid roll out shelf
- Adjustable Wire shelf
- Side Extensions
- Flag System (1 each of red, yellow and green)
- Clean/Dirty Indicator
- Total Locking Casters
- Tow Hitch

Model Numbers and Case Dimensions

Model	Case Dimension		OA Dimension			Adjustable Shelves	Doors	
	Depth	Width	Height	Depth	Width	Height		
MMCC2-2PS-SSD	28.5	28.5	47.25	32.625	34	56.375	2	1
MMCC3-1PS-SSD	25	40.25	30.25	28.125	46	39.375	1	2
MMCC4-2PS-SSD	25	40.25	47.25	28.125	46	56.375	2	2
MMCC5-2PS-SSD	25	36	47.25	29.125	41.75	56.375	2	2
MMCC6-1PS-SSD	25	23.625	30.5	29.125	29.375	39.625	1	1
MMCC7-2PS-SSD	25	36	44.5	28.125	41.75	53.625	2	2
MMCC8-1PS-SSD	25	23.25	28.5	28.125	28.75	37.625	1	1
MMCC9-2PS-SSD	25	23.625	46.25	29.125	29.375	55.375	2	1
MMCC12-1PS-SSD	25	36	31	29.125	41.75	40	1	2
MMCC14-2PS-SSD	25.825	46.5	31.25	29	52.25	40.25	2	2

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Standard Features (Open Cart)

Open Case Carts come standard with:

- Open design
- Heavy built cart
- Full wrap-around non-marring bumper
- Adjustable stainless steel shelves
- Stainless steel guard rail
- 6" composite directional locking casters

Optional Features for the Open Case Cart:

- Wire grid on back side
- Fixed Shelving
- Adjustable Preforated Wire Shelf (non roll out)
- Adjustable Wire Shelf (non roll out)
- Adjustable Solid Shelf (non roll out)
- 6" maintenance-free, high temp, high pressure stainless steel casters with sealed ball bearings
- Total Locking Casters
- 6"Plastic Bin
- 10" Plastic Bin

Model Numbers and Case Dimensions

Model	OA Dimension						
	Depth	Width	Height				
MMOCC13	29.375	40.375	37.5				
MMOCC16	26.125	60.375	67.25				
MMOCC18	27	40.75	37				
MMOCC19	30.875	40.75	39				
MMOCC21	29.75	29.75	62				
MMOCC24	24	30	54				
MMOCC25	24	24	54				



Standard Features (Vertical Handle Case Cart)

Vertical Handle Case Carts come standard with:

- Ergonomically Friendly Vertical Handles for percise control.
- Fully Welded Construction
- 8.5" x 11" card holder
- Sound-proof tops and doors for quiet operation
- Adjustable perforated roll out stainless steel shelves
- Full wrap around non-maring bumper
- Tamper evidence security tabs
- Positive lock door latches
- 6" mainentance-free, high temp, high pressure stainless steel casters with sealed ball bearings, 3 swivel and 1 fixed directional.

Optional Features for the Vertical Handle Case Carts:

- Adjustable solid shelf (roll out)
- Adjustable solid shelf (non roll out)
- Adjustable perforated shelf (non roll out)
- Adjustable wire shelf (roll out)
- Adjustabe wire shelf (non roll out)
- No Shelves
- Side Extensions
- Flag system (one each of red, yellow and green)
- Clean/Dirty indicator
- Tow hitch
- Cool touch handles
- Total locking casters
- Silicon door gasket for complete sterility control

Model Numbers and Case Dimensions

Model	Case Dimension		OA Dimension			Adjustable Shelves	Doors	
	Depth	Width	Height	Depth	Width	Height		
MMCV95-2PS-SSD	26.5	39.625	40.75	27.75	48.25	53.5	2	2
MMCV107-2PS-SSD	24.75	40	38.75	26	48.75	51	2	2



Recommended Usage

Case Carts are transport vehicles intended to secure and convey items such as instrument sets and surgical supplies from the Sterile Processing Department of the healthcare facility to the Operating Room and back again for reprocessing.

For these products to be used correctly, certain safety precautions must be adhered to. The precautions for use are:

- Take care when transporting the cart (i.e. doors properly secured and wheels unlatched).
- Doors should be closed during transport and when populated with supplies needed for surgery
- A document holder is provided on most models to hold pick lists or other necessary information
- Once items have been removed, the cart may remain for transport of used items
- Staff handling contaminated items must follow facility guidelines and standard precautions
- After use, the cart should be properly decontaminated (See Cleaning and Maintenance)
- Once cleaned, the cart should be inspected for damage or wear. For example, shelves should be properly secured, doors should close and open easily, and wheels should be free of obstructions
- If necessary or deemed faulty, case cart should be taken out of service for maintenance or repair
- Care should be taken when loading the cart, i.e. heavier sets placed on lower shelves. Do not stack wrapped trays as this may compromise their ability to maintain a sterile barrier. Tears will require reprocessing of the set.
- Sterilization containers should be placed flat on the shelf. Two (2) containers may be stacked, one on top of the other, for transport.
- OPTIONAL: When contaminated items are transported in the case cart, the cart should be clearly labeled. MAC Medical provides a sliding Disposition Monitor whereby contents are identified with visible signage indicating that the contents are "CLEAN" or "DIRTY" (not safe for handling without taking proper protective precautions). In addition, MAC Medical also provides tamper-evident stainless steel tabs.

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Parts of the Closed Case Cart

The illustrations below show exterior and interior views of a typical Closed Case Cart.



Exterior view:

- 1. 8 1/2 x 11" Card Holder
- 2. Push Handle
- 3. Bumper Guard
- 4. Door Latches
- 5. Casters and wheels (with footoperated green lock on one directional lock wheel).



Interior View:

- 1. Removable perforated Shelves
- 2. Shelf latches
- 3. Door Catches

Parts of the Open Case Cart

The illustrations below shows some of the features of a typical Open Case Cart.



- 1. Adjustable Perforated Shelves (non roll out)
- 2. Fixed Solid Shelf (non roll out)
- 3. Bumper Guard
- 4. Casters and wheels (with on foot operated green lock on one directional lock wheel).

Parts of the Vertical Handle Case Cart

The illustrations below show exterior and interior views of a typical Verticle Handle Case Cart.





Exterior View:

- 1. Vertical Handles
- 2. 8 1/2" x 11" Card Holder
- 3. Door Catches
- 4. Door Latches
- 5. Tamper Evidence Tabs
- 6. Bumper Guard
- 7. Casters and wheels (with foot operated green lock on one directional lock wheel).

Interior View:

- 1. Vertical Handles
- 2. Removable Perforated Shelves
- 3. Door Catches
- 4. Shelf Latches



Unpacking Instructions

Receiving Requirements

The customer is responsible for making sure the loading dock at their facility can accommodate a skid-mounted case cart approximately 60" x 50" x 70". The customer must also provide transportation equipment (forklift, etc.) for a case card and skid weighing approximately 300 lbs.

Inspection

- 1. Receiving area must meet all State and Local regulations prior to unpacking.
- Customer must inspect skid and Case
 Cart both before and after unpacking to
 determine if any items were damaged during
 shipping.
- 3. All damaged items must be listed on the Bill of Lading.
- 4. Customer is responsible for the proper disposal of all packing materials. The disposal of these items must meet all State and Local regulations.

Unpacking The Case Cart

Case Carts are shipped on well-constructed wooden skids. 4 steel bands secure the Cart to the skid. The stainless steel surfaces of the Cart are protected heavy carbboard and foam padding, and by layers of plastic wrapping (Fig.1). The wheels and casters of the Case Cart are protected by styrofoam blocks (Fig. 2)

Care must be taken while unpacking the Case Cart to avoid damage. Do not drop tools on the Case Cart or scratch the surfaces with sharp edges.

IMPORTANT: Wear gloves and eyewear during the unpacking operation.

IMPORTANT: At one point during the unpacking operation, at least 2 men or a hand-operated forklift will be needed to safely move the Cart from the wooden skid.

Retain all shipping materials until the Case Cart is completely unpacked and inspected for damage.

- 1. Use tin snips to cut the metal bands holding the case cart to the wooden pallet.
- Using 2 men or a Hand-operated fork-lift, lift the cart off of the wooden skid and off of the styrofoam blocks. (NOTE: the foam blocks are glued to the wooden skid). Place the Cart on the floor.
- 3. Remove all protective packing material.
 - A. Caution: DO NOT use a box cutter or any other cutting utensil to remove the plastic protective wrapping around the Case Cart. These items can scratch the protective coating on the stainless steel allowing the surface to rust.
- 4. The Case Cart is now ready for use.
- 5. Discard shipping and packing materials in compliance with Local and State regulations.



Fig. 1: Steel bands and Padding



Fig. 2: Foam Blocks protecting Casters





Closed Cart and Vertical Handle Case Cart Operation

Remove all protective covering from the exterior of the cart. Covering must be removed before placing the cart into service.



Fig. 3: Door Latches

Doors - To open, lift up on door latch paddle to open the door(s). On double door units, the right door must be opened before the left door. To close, swing door(s) back into cart, with the right door overlapping the left (Fig. 3)

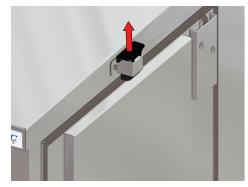


Fig. 4: Door Catches

Door Catch - To lock the door in the open position, rotate the door(s) to lie against the side of the unit. Pull the door catch up and push the door against the side of the unit. Release the catch to lock the door in place. To close the door, pull the door catch up to release it and close the door (Fig. 4)

Adjusting Shelves

Case Carts can contain solid, perforated or wire shelves. These shelves can be adjusted for various heights within the unit. Shelf liners are not recommended.

Locking Shelves

The shelves can be locked into place in the unit with the shelf latches.



Fig. 5: Rotate Shelf Latch

To lock a shelf, rotate the shelf latch towards the front of the shelf (Fig. 5)



Fig. 6: Snap Latch into place

Then snap the latch into place over the shelf edge. To unlock, lift up slightly on the shelf and rotate the shelf latch back to its original position (Fig. 6)



Removing Roll Out Shelves -

To remove a roll out shelf (solid, perforated or wire), pull the shelf out along its glide until the first two rollers are visible (circled in red) (Fig. 7). Then tilt up the shelf to free the first two rollers from the rail and continue to slide out until the second set of rollers are visible. Then lift out the shelf (Fig. 8)



Fig. 7: Pull Shelf till first two rollers visible



Fig. 8: Pull out shelf

Removing non Roll Out Shelves.

To remove a non Roll Out Shelf, pull up on the shelf arm until the arm elbows clear the slots. Then pull the arms out of the slots. Do the same for all the shelf arms and remove the shelf. (Fig. 9).



Fig. 9: Non Roll Out Shelf, arms and slots

Adjusting Shelf Level for non Roll Out Shelves

Remove the non Roll Out Shelf as described above (Fig. 9). Move the shelf to the slots on the desired level. Secure the shelf in place by inserting the shelf arms into the slots.

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Adjusting Shelf Level for Roll out Shelves

To adjust the shelf level, first remove the shelf as detailed on Page 12 (Fig. 7 - Fig. 8) - **Removing Roll Out Shelves**.



Fig. 10: Press Release Button

Press the button to release the rail (both sides of the cabinet) so that the rails can be moved to another level (Fig. 10)



Fig. 11: Lift Rail up

Lift the rail up so that the pin disconnects from the slotted vertical side rail (Fig. 11)



Fig. 12: Push Rail towards back

Push rail rowards the back (Fig. 12).



Fig. 13: Tilt Rail up

Tilt the rail up and pull forward (Fig. 13)



Fig. 14: Set Rail in new position

To set the rail in its new position, align the rail at an angle with the rail slots at the back of the cart (Fig. 14).



Fig. 15: Slide Rail down and forward

Slide the front of the rail down, making sure the pin is behind the slotted vertical side rail. Pull the rail forward and down, so that the release button appears (Fig. 15).

Then re-install the shelf after both rails have been adjusted to the new height.

Optional Features

Optional Dispositional Monitor

When contaminated items are transported in the Closed Case Cart and Vertical Handle Case Cart, the cart should be clearly labeled. Use the slide (sliding right or left) to indicate whether the contents are clean or dirty (Fig. 16).





Fig. 16: Dispositional monitors





Optional Flag System

This feature comes with 3 flags - Red, Green and Yellow (Fig. 17).



Fig. 17: Flag System

Casters and Wheels

The wheels that come on this unit are 3 swivel and one directional lock wheel. The directional lock wheel is a foot-operated swivel lock caster.



Fig. 18: Push down on Caster Lock

Push Down on the green tab with your foot to lock the caster (Fig. 18).



Fig. 19: Pull up on Caster Lock

Lift up on the green tab to unlock the caster (Fig. 19).



Casters and Wheels Care and Maintenance

Wheels:

- Periodically, the wheels should be checked for visible wear. The accumulation of certain matierials such as string or thread can cause the wheel to bind and result in flat spots appearing on the wheel over time. Such wear can cause the Case Cart to be hard to steer.
- Replacement wheels should be kept on hand to keep equipment in working order.

Casters:

- If the caster has excessive play it may need replacement. Corrosion or buildup of dirt or debris can result in it not turning freely.
- Check the directional swivel lock caster to ensure it is not slipping or loose or does not turn freely. If slipping is due to a worn wheel, replace the wheel immediatly.
- If the lock is not operating properly, repair or replace it and retest before returning the equipment to use.

Proper maintenance of the Wheels and Casters will ensure their proper performance and increase their lifespan.

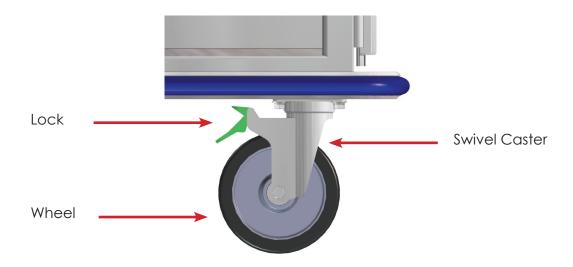


Fig. 20: Wheel, Caster and Lock components

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Cleaning and Maintenance

Case Carts must be cleaned on a regular basis in order to prevent unnecessary damage to the stainless steel surface. When cleaning the Case Carts, make sure to use the proper cleaning agents and cleaning materials.

CAUTION: DO NOT USE the following materials on the stainless steel surfaces of Case Carts: Abrasive Pads
Scrapers
Steel Wool
Wire Brushes

CAUTION: DO NOT USE the following agents on the stainless steel surfaces of Case Carts: Hard water
Bleach or any products containing Chlorine
Hydrochloric Acid
Denatured Alcohol

NOTE: Always follow the manufacturer's directions for any chemicals used on the stainless steel surfaces of the Case Carts.

Use the following cleaning materials and agents: Soft, clean lint-free cloth Distilled water Distilled water with mild detergent Cleaners approved for use on stainless steel

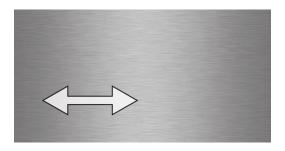
How to clean the Case Cart interior -

- Open the door and remove all adjustable shelves and clips.
- Clean the adjustable shelves and shelf clips separately.
- Using a damp, lint-free cloth and approved cleaner, wipe down the interior of the Case Cart.
- Use a lint-free dry cloth to dry the Case Cart interior or let air dry. If air drying, ALWAYS leave the Case Cart doors open.

How to clean the Case Cart exterior -

Stainless Steel:

- 1. Use the commercially prepared stainless steel cleaner and follow the manufacturer's directions.
- 2. Clean the Case Cart with the grain of the Case Cart panel.



Decals or Printed Labels:

3. Use distilled water and a mild detergent applied with a lint-free cloth. DO NOT use any chemical cleaners.

Case Cart Automated Cart Wash Parameters

- 1. The Cart Wash Chamber must be non-pressurized.
- 2. Water temperatures in the range of 140°F (60°C) to 180°F (82.2°C) are allowed with an exposure period not to exceed 30 minutes.
- 3. Hot air drying is allowed with the temperatures not to exceed 200°F (93.3°C) and an exposure period not to exceed 15 minutes.
- 4. Steam sanitation is allowed with the temperature not to exceed 212°F (100°C) and an exposure period not to exceed 15 minutes.
- 5. Phosphoric acid based sanitation is allowed with the concentration of phosphoric acid not to exceed 10% by volume.
- 6. Sodium hydroxide based sanitation is allowed with the concentration of sodium hydroxide not to exceed 10% by volume.
- 7. Potassium hydroxide based sanitation is allowed with the concentration of sodium hydroxide not to exceed 10% by volume.
- 8. Sodium hypochorite, chlorine, chlorine dioxide and/or bleach based sanitation MUST be avoided.



Replacement Parts - General

Case Cart replacement parts listed on this page have been identified by MAC Medical as serviceable by facility personnel and are available for purchase. To obtain MAC Medical certified parts and authorized services, contact your MAC Medical representative.



Item ID	Part #	Description	QTY.	Model
1	CC0003	Door Catch	2	All Closed and Vertical Handle Case Carts
2	CC0006	PVC Bumper	1	All Models of Case Carts
3	H0123-SS	6" Jarvis Stainless Steel Swivel DirectionalCaster	3	All Closed and Vertical Handle Case Carts
3	H0135-SS	6" Directional Swivel Caster	3	All Closed and Vertical Handle Case Carts
3	CC0015	6" Plastic swivel caster	2	All Open Case Carts
4	CC0015DL	6" Plastic swivel caster w/ Directional Lock	2	All Open Case Carts
4	CC0015TL	6" Plastic Swivel Caster w/ Total Lock	2	All Open Case Carts
4	H0135-LSS	6" Directional Locking Swivel Caster	1	All Open Case Carts
4	H0123-LSS	6" Jarvis Stainless Steel Swivel Directional Lock Caster	1	All Closed and Vertical Handle Case Carts

Limited Lifetime Warranty

MAC Medical warrants to the original purchaser that its Proprietary Products will be free from defects in workmanship or materials under normal use and service for the life of the product, so long as owned by the original purchaser, according to the limitations set forth below. Defective products shall be repaired or replaced at MAC Medical's option at no cost to the original purchaser provided:

- 1. The customer must obtain a written return authorization supplied by MAC Medical's customer service department. The product must be returned, properly packaged, with a copy of the original sales receipt and copy of the RMA authorization. Please call (877) 828-9975 or (618) 476-3550 to receive a return authorization.
- The customer must pre-pay freight charges to and from MAC Medical and must ship
 merchandise properly packaged, in a way the product will not be damaged during transit
 to the factory. MAC Medical does not warranty any freight damage to or from the factory. It
 is the customer's responsibility to inspect the product for packaging damage before signing
 the BOL.

This warranty does not apply to products, which have been subject to abuse, misuse, accident, modification, alteration, tampering, negligence, lack of routine maintenance or misapplication; or products that have been repaired by other than MAC Medical or its authorized representatives.

This warranty does not apply to glass, fabrics, vinyl, seat coverings, cushions, padding or their stitching, gluing or installation. Component parts not manufactured by MAC Medical, such as casters, caster inserts, any components made from rubber or plastic, circuit boards, fan heaters, plumbing parts, electrical switches and other components are also excluded. For these component parts, MAC Medical will pass on the original manufacturer's warranty to MAC Medical equipment original purchasers. Please consult factory for questions regarding the warranties of these component parts. This warranty does not apply to custom fabricated products. Consult factory.

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To place an order, contact our customer service department at 618-476-3550 or 877-828-9975 or by email at sales@macmedical.com

Customer needs are our first priority.

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