Instruction Manual

erbe



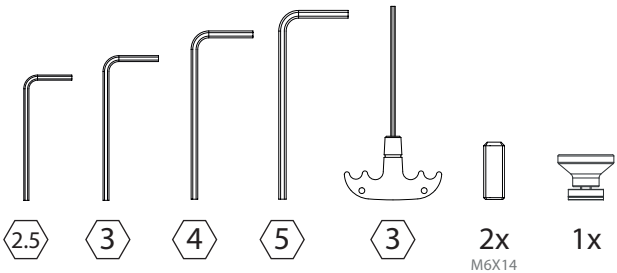
⚠ **Installation and maintenance must be performed by qualified technical personnel and following the assembly and maintenance instructions (see dedicated section “Assembly” and “Maintenance”) of this manual.**

Scan the QR code to find the instruction in your language

https://multix-trolley.com/ifu/t6c_erbe/

ASSEMBLY INSTRUCTION

The Trolley X5L is a Class I medical device according to the classification rules of Annex VIII and bears the "CE" marking in accordance with the Medical Device Regulation (MDR) (EU) 2017/745. It complies with IEC 60601-1:2005+AMD1:2012+AMD2:2020 and meets the general safety and performance requirements of Annex I of the aforementioned Medical Device Regulation.



Reproductions, duplications or translations, even in the form of extracts, are prohibited without prior permission from Multix Solutions S.r.l.

ASSEMBLY INSTRUCTION
20861-004 - Smart Cart with isolation transformer

! If any accessory is present, please refer to the related instruction before assembling the trolley

1

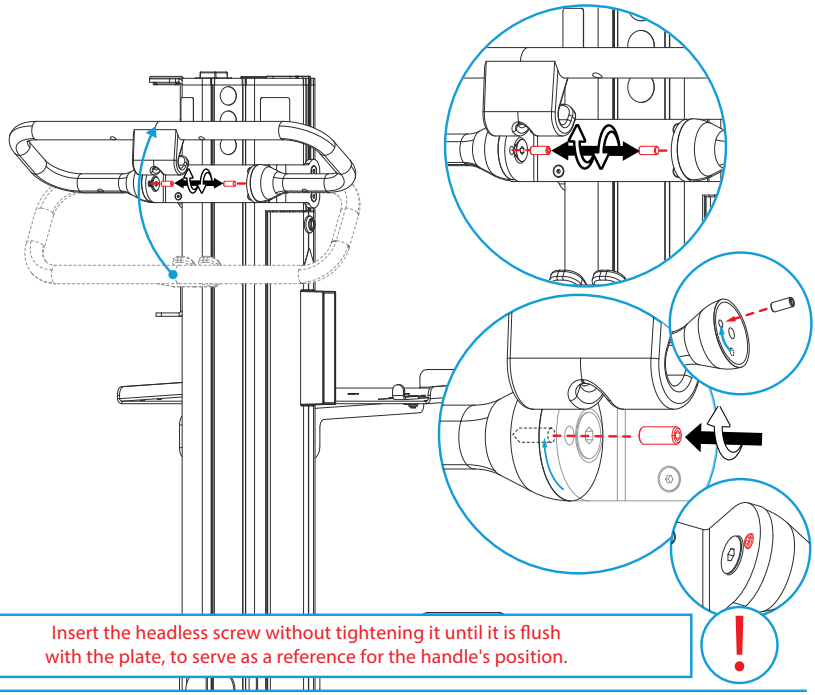
2x

M6X14

3

TORQUE

0,5 Nm



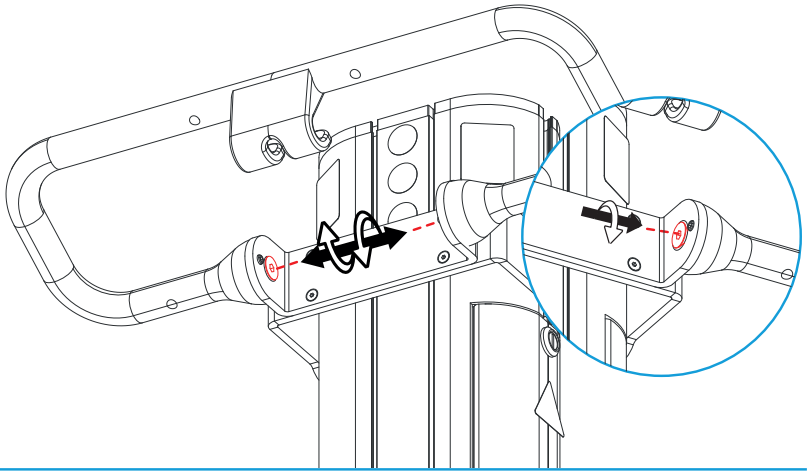
Insert the headless screw without tightening it until it is flush with the plate, to serve as a reference for the handle's position.

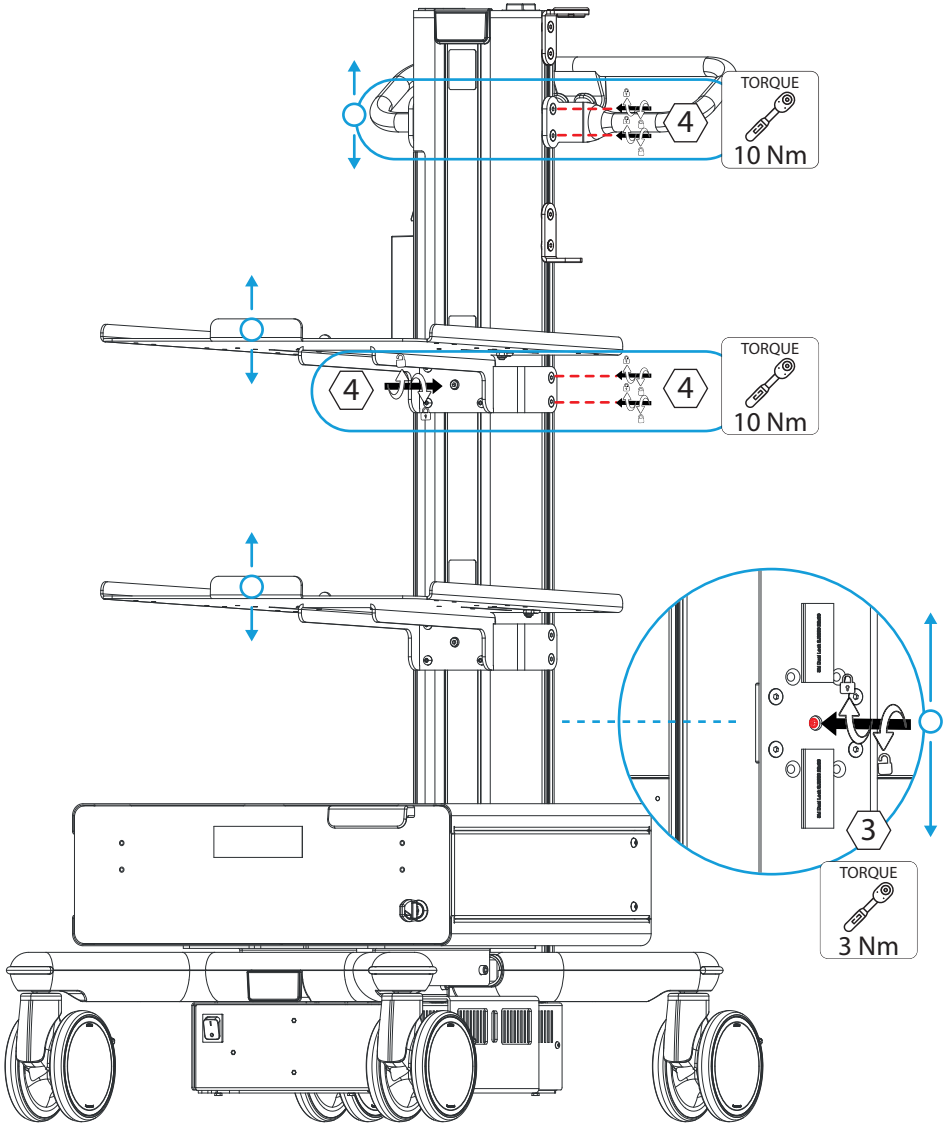
2

5

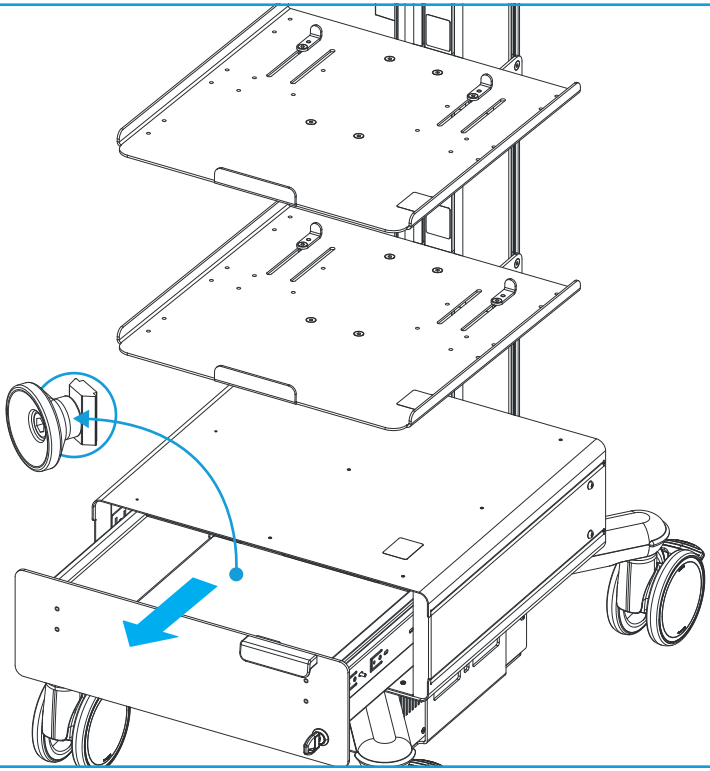
TORQUE

16 Nm




TORQUE
4
10 Nm
TORQUE
4
4
10 Nm
3
TORQUE
3 Nm

3



4

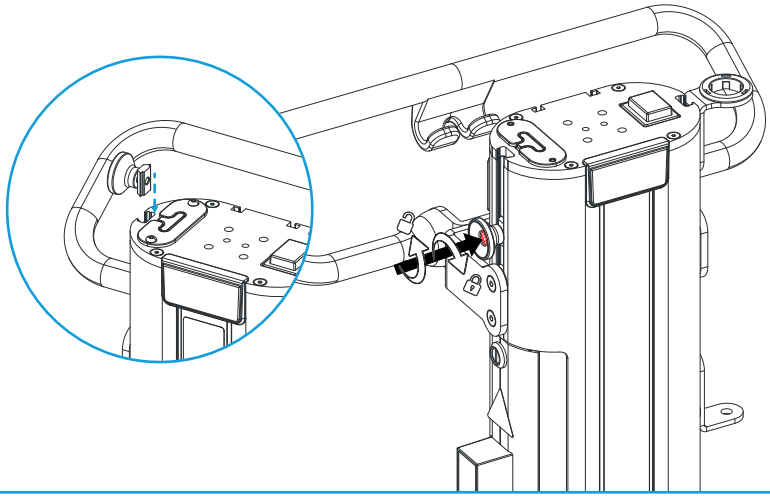


1x

5

TORQUE

3 Nm



Important Notices

INTENDED USE

The **Smart Cart with isolation transformer - 20861-004** allows the transport of **devices and their accessories** between multiple therapy sites within hospital environments and care facilities.

GENERAL SAFETY REQUIREMENTS

- The trolley manual must be read carefully before use.
- This user manual is an integral part of the trolley. It must therefore be kept for the entire duration of use of the product for future reference.
- The product was created exclusively for the methods indicated in the user manual.
Any other use is considered improper.
- In case of doubt, please contact the manufacturer.

- **Multix Solutions is not liable for personal injury and/or property damage resulting from improper use.**
- Tampering with or damage caused by improper use of the trolley will immediately invalidate the warranty.
- Modifications to the device are not permitted.
- Repairs may only be carried out by Multix Solutions or expressly authorized personnel.
- Multix Solutions is only responsible for the safety, reliability, and performance of the device if modifications and repairs are performed by Multix Solutions or personnel expressly authorised by Multix Solutions to perform such tasks.

- To ensure patient safety and interference-free operation, we recommend using only original Multix accessories. Multix Solutions accepts no liability for the use of accessories that are not included on the trolley.
- Subsequent installation of Multix system components must be carried out by qualified personnel.
- Anyone who makes changes to the system by installing accessories and/or additional equipment on the trolley is configuring the system and is responsible for ensuring that the system complies with the valid version of CEI 60601-1.

- Observe the maximum power (VA or amperes) that can be drawn from the sockets as indicated by the label on the trolley

MAX. RATING
10A - 250V AC - 50/60 Hz

- Please note that it is not possible to connect an additional power strip to the existing power strip.
- Only devices complying with the requirements of EN IEC 60601-1 may be connected to the existing power strip.

- The multiple socket may only be used to supply power to devices that are part of the medical electrical system installed on the trolley; connecting a device that is not part of the medical electrical system may lead to danger.
- In the electromedical system resulting from the assembly of medical devices on the trolley and powered by the power strip, the current in the protective earth conductor of the power strip must not exceed 5 mA.
- When connected to a power strip, the plugs must be secured by means of anti-extraction devices provided on the trolley.

- **All accidents involving the X5L trolley must be reported to the manufacturer.**

GENERAL SAFETY WARNINGS AND CAUTIONS

The safety of the trolley is ensured by observing the following warnings:

- Check that the trolley corresponds to the product required.
- Check that it is not broken or damaged during transport.
- Check that the moving and locking parts, such as wheels, brakes and (if present) the gas spring, are functional.

- Before assembling the system and its accessories, all four wheels of the trolley must be locked.
- When the trolley is not in use, ensure that the trolley wheels are locked and that the system is not parked on uneven surfaces.
- All trolley wheels must be unlocked before pushing the trolley.
- Before transport, the articulating arms must be fold into the resting position and secure. Failure to do so may cause the cart to tip over and result in injury.

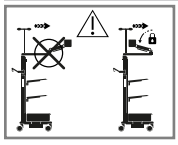
- The device is only suitable for indoor use.
- The device is not suitable for potentially explosive, oxygen-rich or flammable environments.
- Do not use the trolley inside explosive environments when an isolation traformer is mounted on it.
- The product is not intended for use within MRI environments.

- Do not store containers of liquids on top of the trolley to avoid electrical shocks caused by liquids leaking inside the structure and onto electrical equipment.

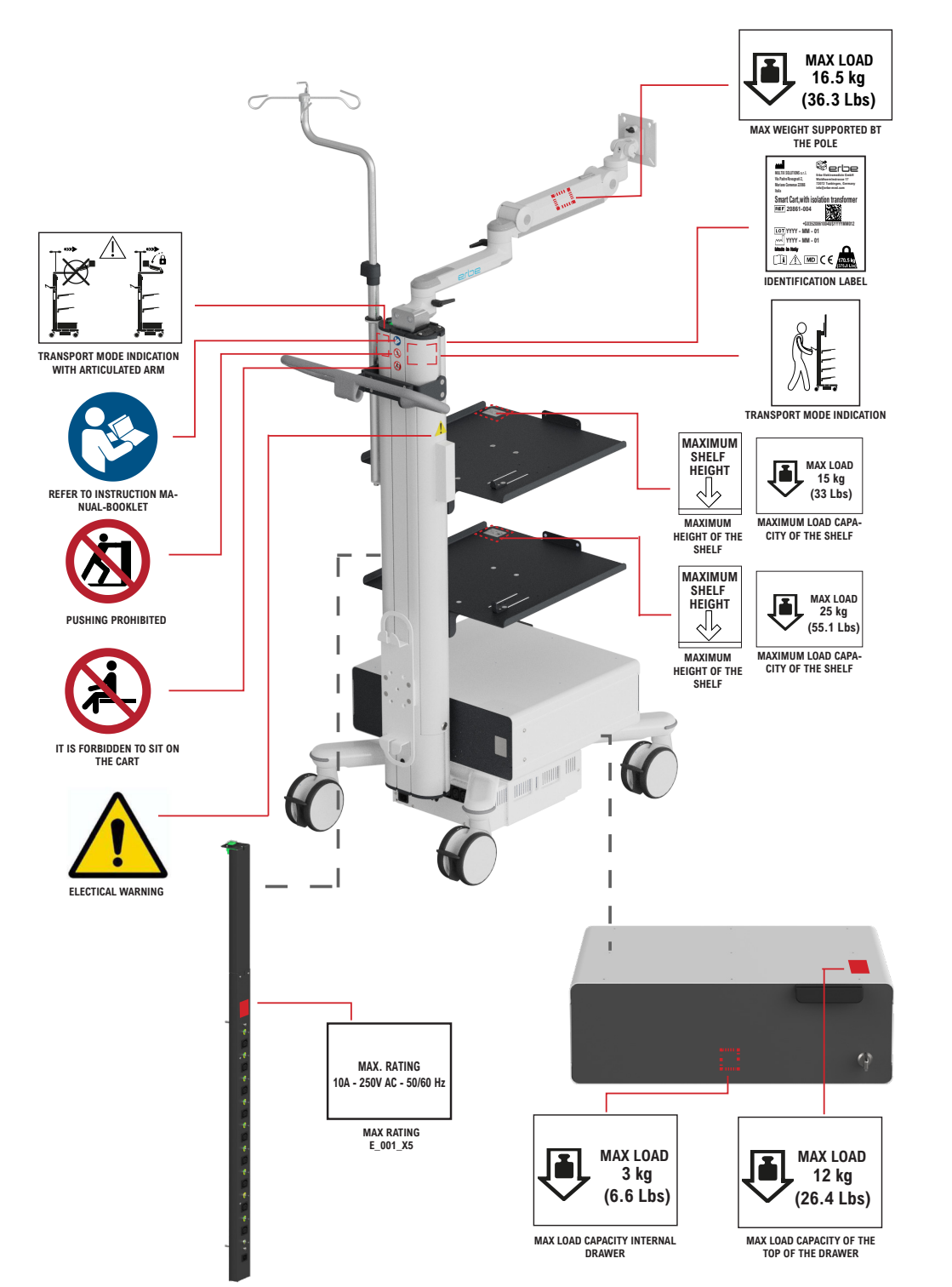
- If electrical equipment is connected to the power strip, an ME (Medical Electrical System) is created and the level of safety is reduced.
Verify the mutual electromagnetic compatibility of the different equipment placed inside the trolley structure.
The person responsible for the installation of this ME system must ensure that the ME system complies with the requirements of EN 60601-1 and Article 22 of the MDR.
- Only use equipment and accessories that are considered to be non-hazardous, that comply with the requirements of IEC 60601-1 or that have been tested according to IEC. In case of doubt, carry out a risk analysis (ISO 14971).

Important Notices

The following symbols are displayed on the product or within the instruction manual:

	Caution
	Operational instructions must be followed
CE	CE Marking
	Manufacturer
	Date of manufacture
LOT	Batch code
REF	Catalogue number
MD	Medical Device
	Refer to User Manual
	Distributor
	Warning
	Transport mode indication
	Transport mode indication with articulated arm

	Max. trolley load capacity
	Conductor wheels: marked with a yellow dot
	No pushing
	Do not sit on the trolley
	Fragile, handle with care
	Orientation
	Humidity limit
	Temperature limit
	Keep dry
	Keep away from sunlight
	Unique Device Identification
	Maximum accessory and peripherals load
	Maximum shelf height


MAX LOAD
16.5 kg
(36.3 Lbs)
MAX WEIGHT SUPPORTED BT THE POLE
IDENTIFICATION LABEL
TRANSPORT MODE INDICATION WITH ARTICULATED ARM
TRANSPORT MODE INDICATION
REFER TO INSTRUCTION MANUAL-BOOKLET
MAXIMUM SHELF HEIGHT
MAXIMUM HEIGHT OF THE SHELF
MAX LOAD
15 kg
(33 Lbs)
MAXIMUM LOAD CAPACITY OF THE SHELF
PUSHING PROHIBITED
MAXIMUM SHELF HEIGHT
MAXIMUM HEIGHT OF THE SHELF
MAX LOAD
25 kg
(55.1 Lbs)
MAXIMUM LOAD CAPACITY OF THE SHELF
IT IS FORBIDDEN TO SIT ON THE CART
ELECTICAL WARNING
MAX. RATING
10A - 250V AC - 50/60 Hz
MAX RATING
E_001_X5
MAX LOAD
3 kg
(6.6 Lbs)
MAX LOAD CAPACITY INTERNAL DRAWER
MAX LOAD
12 kg
(26.4 Lbs)
MAX LOAD CAPACITY OF THE TOP OF THE DRAWER

ACCESSORIES AND SPARE PARTS

To ensure patient safety and interference-free operation, we recommend using only original Multix accessories and to pay attention to the minimum and maximum permissible load when printed on the component.
The user/system operator is responsible if non-Multix accessories are used or if they are overloaded.

Contact info@multix-trolley.com for a complete offer of available accessories.

Only use spare parts supplied by Multix Solutions.
Damaged parts should only be replaced by qualified personnel.

Please contact your local distributor and/or Multix Solutions for spare parts.

ARTICULATED ARMS

Please also observe the following instructions:
- When the articulated arm on which the instruments are mounted is positioned horizontally or adjusted in height, ensure that the surrounding space is free and adequate for the size of the instruments supported.
- The mounted instruments must not collide with other instruments, other components, the supporting structure or the walls.
- When the articulated arms need to be dismantled or their position changed, it is essential to first remove the instrument mounted on them.
- When an articulated arm is present in the configuration, it is mandatory to mount a drawer for the X5L platform on top of the base.
- Ensure that the minimum and maximum loads printed on the component are observed.

Before transport, the articulating arms must be fold into the resting position and secure. Failure to do so may cause the cart to tip over and result in injury.

ISOLATION TRANSFORMER and INSULATION MONITOR

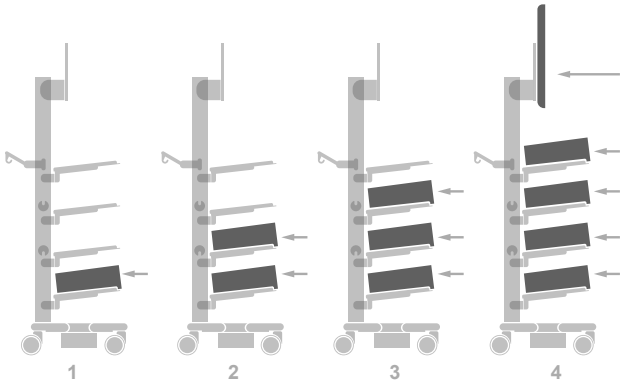
For all information related to the isolation transformer and the insulation monitor, please consult the instruction manuals supplied with the transformer and the monitor supplied with the trolley.

INSTRUCTIONS and LOADING sequence

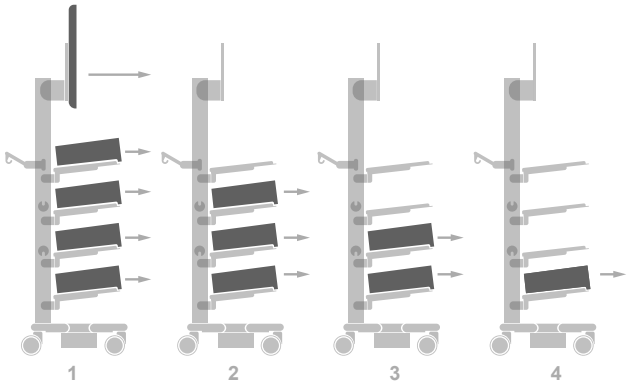
- IT IS FORBIDDEN TO SIT ON THE TROLLEY OR ITS SHELVES
- IT IS FORBIDDEN TO PUSH WHEN THE WHEELS ARE LOCKED
- **Observe the maximum loads printed on the surfaces of system components (e.g. trays) and peripherals**.
- Ensure that the **total weight of the assembled configuration** (including devices and accessories) **does not exceed the total weight indicated on the label attached to the trolley and on the next page in the "transport position and direction" section.**

- arrange the equipment on the trolley in the order of loading described below:

THE TROLLEY MUST BE LOADED FROM THE BOTTOM UPWARDS;
HEAVY DEVICES MUST BE PLACED ON THE LOWER SHELVES or INSTALLED IN ACCORDANCE WITH THE ERBE ELEKTROMEDIZIN GMBH INSTALLATION GUIDES;
MOUNT AND LOAD THE MONITOR SUPPORT LAST.



PROCEED IN REVERSE ORDER WHEN UNLOADING THE TROLLEY.



- once the trolley is loaded, check that all products are secured to prevent them from falling.

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE THE TROLLEY TO TIP OVER!

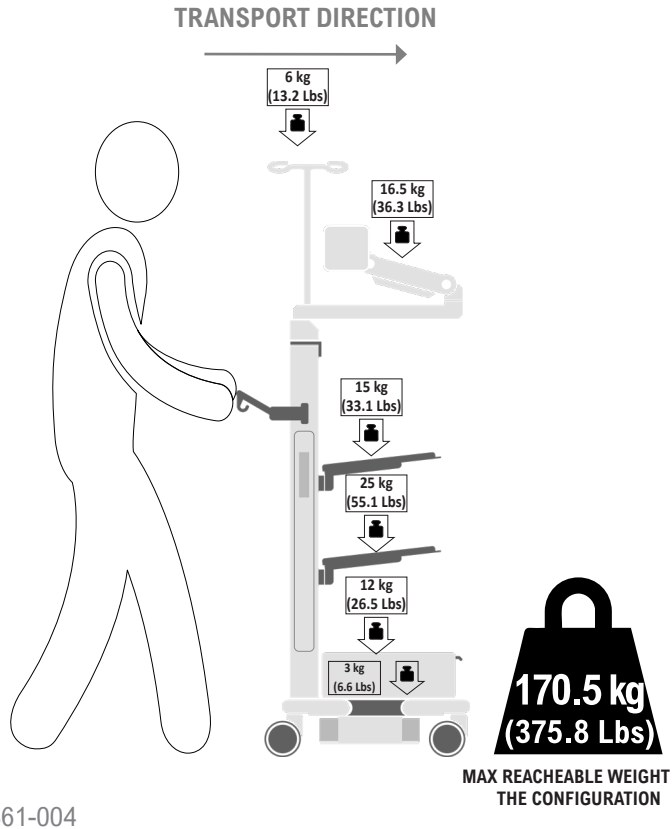
POSITION AND DIRECTION OF TRANSPORT

Transport must be carried out under the following conditions:

Before transport, ensure that the articulated arm is securely locked in the rest position and the IV pole is lowered at the minimum possible height. Failure to do so may cause the cart to tip over and result in injury.

- Before moving the trolley, ensure that the power cable is disconnected from the mains and that the wheels are unlocked and free.
- Check that all equipment/products on the trolley are secured against falling.
- When moving the trolley ensure that **the transport is carried out pushing the handle in frontal** direction as shown in the figure below.
- Avoid exerting excessive force when pushing the trolley.
- Move the trolley with a maximum speed of 4 km/h
- To prevent the trolley from tipping over, the handle must be held if the trolley is pushed over obstacles (e.g. power cables).
- On ramps with a maximum slope of 10° ensure that the trolley can be stopped at all times.

Although every precaution has been taken to ensure the maximum stability of this product, attention must be paid to uneven floors, lift door frames, cables, etc. to avoid accidents.



Appendix

MAINTENANCE

Installation and maintenance must be performed by qualified technical personnel and following the assembly and maintenance instructions (see dedicated section "Assembly" and "Maintenance") of this manual.

- Check all fastening points and mechanisms every 6 months to ensure safety.
- Maintenance must be carried out by qualified technical personnel
- In the event of problems with the maintenance check, contact the manufacturer directly.
- Follow the storage and transport instructions below and on the packaging for proper handling of the trolley:

Ambient temperature: between -20 °C and 60 °C
Atmospheric humidity: 5% - 85% RH

CLEANING

- Clean metal and/or plastic surfaces regularly with non-corrosive, pH-neutral cleaning agents and a soft bristled cloth/sponge/brush.
- Do not pour liquid detergents containing chlorine or ammonia or oily or greasy substances directly onto surfaces.

SERVICE LIFE AND DISPOSAL

- The service life of the product is 10 years.
- The trolley, the packaging and the electrical and electronic parts inside must be disposed of according to local or national regulations.
- Electrical and electronic equipment must be disposed of in accordance with the WEEE directive. For more information, please refer to the disposal instructions in the user manual received with the equipment.

cardboard box and internal reinforcements	inner packaging
20 PAP	04 PE-LD
CARDBOARD	LOW DENSITY POLYETHYLENE

- For more information, contact your local distributor.

Issue date: 2026 - 10
M.A. ASM_000ERBEDEX5L (X5L)

Distributor: Erbe Elektromedizin GmbH

Waldhoernlestrasse 17

72072 Tuebingen, Germany

info@erbe-med.com

Manufacturer: Multix Solutions s.r.l.

Via Padre Rovagnati 2

22066

Mariano Comense (CO)

Italy

www.multix-trolley.com

info@multix-trolley.com