



TECHNIMOUNT
MEDICAL®

THS™ NEONATAL CART

USER MANUAL

SAFETY AND FLEXIBILITY
WHERE IT MATTERS MOST



Copyrights

Copyright 2023 Technimount Medical Inc. is an affiliated company of Technologies CGC Inc. All Rights Reserved. No part of this publication may be reproduced, transmitted, transcribed, backed-up on a retrieval system, translated in any language, modified in any form or by any means, without the written permission of Technimount or its affiliate companies.

Trademarks

Product and medical device manufacturer names are Trademarks™ or Registered Trademarks® of their respective holders.

- Technimount Medical® is a registered trademark of Technologies CGC Inc.
- THS™ is a trademark of Technologies CGC Inc.
- Babyleo® is a registered trademark of Draeger.
- Ametek® is a registered trademark of Powervar.
- Serres® is a registered trademark of Serres Inc.

For any issues with your Technimount product, its components, or for any technical questions during the installation, operation, or maintenance, please contact Technical Support at techsupport@technimount.com.

Contact Information

Technimount Medical Inc.

C/O: Regulatory Affairs

3770 Jean Marchand Street, Suite 100-B

Quebec (Quebec) G2C 1Y6

Canada

customerservice@technimount.com

techsupport@technimount.com

legal@technimount.com

www.technimount.com

T + 1 581 700-6583

TF + 1 888 521-0871 (North America)

Table of Contents

Copyrights	ii
Trademarks	ii
Contact Information	ii
1. General Mentions and Considerations	5
..... 1.1. Intended Use	5
..... 1.2. User Competency	5
..... 1.3. Warranties	5
..... 1.3.1. Warranty Policy	5
..... 1.3.2. Limited Warranty	6
..... 1.3.3. International Warranty Clause	6
..... 1.3.4. User Liability	6
..... 1.4. Claims	6
..... 1.4.1. Damaged or Defective Merchandise	6
..... 1.4.2. Return Policy	7
..... 1.4.3. Return of Material Authorization (RMA)	7
..... 1.4.4. Claim Process	7
2. General Safety Guidelines	8
..... 2.1. Symbols and Definitions	8
..... 2.2. Labels	9
..... 2.2.1. Safety Labels	9
..... 2.2.2. Manufacturing Label	10
..... 2.3. Safety Measures	11
3. Technical Specifications	14
4. Unpack the THS Neonatal Cart	16
5. THS Neonatal Cart Illustrated Parts	17
6. THS Neonatal Cart Orientation Diagram	18
7. Install the Required Parts	19
..... 7.1. Required Tools	19
..... 7.2. Install the IV poles	19
..... 7.3. Install the THS coupling device	21
..... 7.3.1. Install the THS coupling device at Patient Foot End	22
..... 7.3.2. Install the THS coupling device at Patient Head End	23

8. Install the Optional Parts.....	24
..... 8.1. Required Tools.....	24
..... 8.2. Install the Type D-M15 and Type E-M24 Gas Cylinder Mounting Bracket	25
..... 8.3. Install the Support Plate for the Serres Suction Canister	27
..... 8.4. Install the Medical Grade Power Bar with Surge Protection	29
..... 8.5. Install the Support Plate for the Draeger Mounting System with SLIDE Adapter.....	30
..... 8.6. Install the UPS Cable Management Hook.....	33
..... 8.7. Install the UPS On-Off Switch Protective Panel.....	34
..... 8.8. Install the Uninterruptible Power Supply (UPS)	36
9. Adjust Your Configuration	39
..... 9.1. Adjust the Height of the Horizontal Rails	39
..... 9.2. Adjust the Height of the UPS Protector/Shelf.....	40
10. Maintenance.....	41
..... 10.1. Required Tools	42
..... 10.2. Condition-Based Maintenance Plan	43
11. Spare Parts.....	45

1. General Mentions and Considerations

Intended for the purchaser/supervisor, this user manual contains detailed product information and was designed to assist with the unpacking, assembling (when indicated), and maintenance of the THS Neonatal Cart. Its content should be relayed to the clinical staff during training. This document should be used with the operating guide, which contains specific user-related information such as the operating procedures and the daily safety checks.

NOTE : Technimount continually seeks advancements in product design and quality. While this user manual contains the most updated product information available at the time of printing, it may contain minor differences from the current version. For more information, please contact Customer Service at customerservice@technimount.com.

1.1. Intended Use

Transport cart designed to aid clinical staff move the Draeger Babyleo® TN500 incubator and the multiple medical devices that are essential to patient care during intrahospital transfers.

1.2. User Competency

Part of the Technimount Healthcare System (THS) product line, the THS Neonatal Cart is intended for clinical staff who have received the appropriate training, necessary to operate the device in the field, according to its intended use, as outlined in this user manual and operating guide. Please read all provided documentation thoroughly before using the cart to ensure the safe operation of the cart and provide a safe environment for patients and clinical staff.

1.3. Warranties

1.3.1. Warranty Policy

This statement constitutes Technimount's entire warranty policy with regards to Technimount products. Technimount makes no other warranty or representation, neither expressed nor implied, except as stated herein. There is no warranty of merchantability or warranty of fitness for any particular purpose. Under no circumstances will Technimount be held liable hereunder for incidental or consequential damages, arising from or in any manner, related to sales or use of any such device.

Technimount Medical Inc. guarantees to the original "Purchaser" of the "Product" with which this "Limited warranty" is included, that the product will be free from "Defects" in workmanship and materials under normal use for a "Warranty period" of one (1) year from the product purchase date by the purchaser. During the warranty period, the product will be repaired or replaced according to the "Limited warranty" without charge to the purchaser for parts or labor. The parts and product may be repaired or replaced with new or refurbished parts or products. Herein this Limited Warranty, "Refurbished" means parts and products which have been returned to the factory, specifically. If the product is repaired or replaced within the warranty period, the greater of the remaining warranty period will apply, or three (3) months from the date of repair or replacement. If the product is repaired or replaced after the warranty period has expired, the warranty period for the repair or replacement will expire three (3) months after the repair or replacement date.

1.3.2. Limited Warranty

Technimount products are intended to retain medical devices in place during intrahospital transfers. Technimount products must not be reused if involved in a crash and must thereafter be replaced. If the end user uses a Technimount product following a crash, it is at the end user's own risk and Technimount will not be held liable.

The limited warranty does not apply to normal wear that could result from normal use. It does not apply when the product or any of its components have been disassembled or repaired by someone not authorized by "Technimount". It does not cover repair or the replacement of any product or part thereof damaged by neglect, misuse, moisture, liquids, exposure to heat, accidents, abuse, and non-compliance with the instructions for installation and use provided with the product. The limited warranty does not cover physical damage to the surface of the product. The decision to repair, replace or refuse the coverage is final and at the sole discretion of Technimount, without any compensation or obligation from Technimount. The product defined as a "transport cart" or "cart" used during intrahospital transfers is specifically designed to fill this requirement. Any other use will void the warranty and Technimount shall not be held liable on any claim if the product has been modified or adapted for use.

1.3.3. International Warranty Clause

This warranty abides by the Canadian domestic policy. Warranty outside Canada may vary by country. Please contact Customer Service at customerservice@technimount.com for more information.

1.3.4. User Liability

The purchaser and administrator are responsible to validate regulations and standards for safety in their region, to comply with applicable safety regulations. Technimount is not responsible to inform the purchaser or the administrator of any applicable legislation for safety in their area.

The administrator is responsible for providing proper training to any personnel who will install, operate and perform maintenance on Technimount products.

1.4. Claims

1.4.1. Damaged or Defective Merchandise

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of the reception date. Do not accept damaged merchandise unless such damage is noted on the delivery receipt at the time of reception. Upon prompt notification, Technimount will file a freight claim with the appropriate carrier for damages incurred. Claims are limited in amount to the actual replacement cost. If the claim has not been received by Technimount within the fifteen (15) day period following the date of delivery, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for the full payment of the original invoice.

Claims for any short or broken merchandise must be made within thirty (30) days of invoicing. For details, refer to the claim process or contact Customer Service at customerservice@technimount.com.

1.4.2. Return Policy

Technimount's mounting and bracket systems for portable medical devices may be returned up to sixty (60) days from the reception date, if:

- The received product does not match what was originally ordered.
- The product does not meet the Technimount technical sheet specifications.
- The product is not compatible with the system on which it was intended to be installed on.

To return a Technimount product,

- A Return of Merchandise Authorized (RMA) must be requested and approved by Technimount prior to returning the product.
- Products must be returned undamaged and in its original packaging, appropriately identified with the approved RMA number. Returns will not be approved on a modified or damaged item.
- Charges may apply if the package received is damaged or items are missing.
- Purchaser is responsible for a restocking fee (refer to Table 1).

Table 1: Restocking fees

RESTOCKING FEES	
Prior to thirty (30) days	10%
Prior to forty-five (45) days	25%
Prior to sixty (60) days	30%

For any manufacturing defect, refer to the conditions within the warranty policy or contact Customer Service at customerservice@technimount.com for additional information.

1.4.3. Return of Material Authorization (RMA)

The Technimount Customer Service department is responsible for all merchandise returns and will provide a Return of Merchandise Authorization (RMA) number, upon approval. The RMA must be printed and placed on the returned merchandise. Technimount reserves the right to charge shipping and restocking fees (refer to Table 1) for the returned items. Special, modified, or discontinued items are not subject to returns.

1.4.4. Claim Process

Upon reception of the returned merchandise, a thorough inspection will be performed. If the merchandise is compliant with the return policy or it is found that the product is defective, Technimount will take corrective actions and close the claim. If, however, it is found that the product is not defective, but rather misused or abused, the product will not be covered by the warranty. Details of our findings and conclusions will be provided shortly thereafter. To submit a claim, contact Customer Service at customerservice@technimount.com to obtain a Return of Material Authorization (RMA) form and return instructions.

2. General Safety Guidelines

Pictograms, safety symbols and labels are used to alert the user to a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury to the user or patient or cause damage to the product or other property. This includes the special care necessary for the safe and effective use of the device to avoid damage that may occur from use or misuse. The terms "Warning" and "Caution" herein carry special meaning and should be carefully reviewed.

WARNING – Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION – Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

Always read and abide by all the safety guidelines identified within this document.

2.1. Symbols and Definitions



WARNING – Hand Crush/Pinch Point

Indicates an area where mechanical components could move toward each other and might result in a potential crush/pinch hazard.



WARNING – General Warning

Alerts the reader of a potentially hazardous situation, which, if not avoided, may result in death or serious injury to the user or patient or cause damage to the device or other property. This includes the special care necessary for the safe and effective use of the device to avoid damage that may occur from use or misuse.



WARNING – Safe Practice

Alerts the reader to pay special attention to the recommendations for safe use of the product.



CAUTION – Safe Working Load/Load Balance

Indicates the total maximum charge for a safe use of the product.



CAUTION – General Mandatory Action

Call for action. Alerts the reader to potential risk to people not following the mandatory action specified by the supplementary sign.



CAUTION – Follow Instructions for Use

Call for action. Reminds the reader to consult the user manual for information.



CAUTION – Two (2) Person Lift

Heavy load. Alerts the reader to a two (2) person lift carrying technique recommendation based on the weight and/or size of the product.

2.2. Labels

Labelling on the surface of the Technimount product, quickly identify potential risks and provides information to the user. Warning labels (Figure 1) and a manufacturing label, including the serial number (Figure 2), can be seen on the Technimount product.

2.2.1. Safety Labels

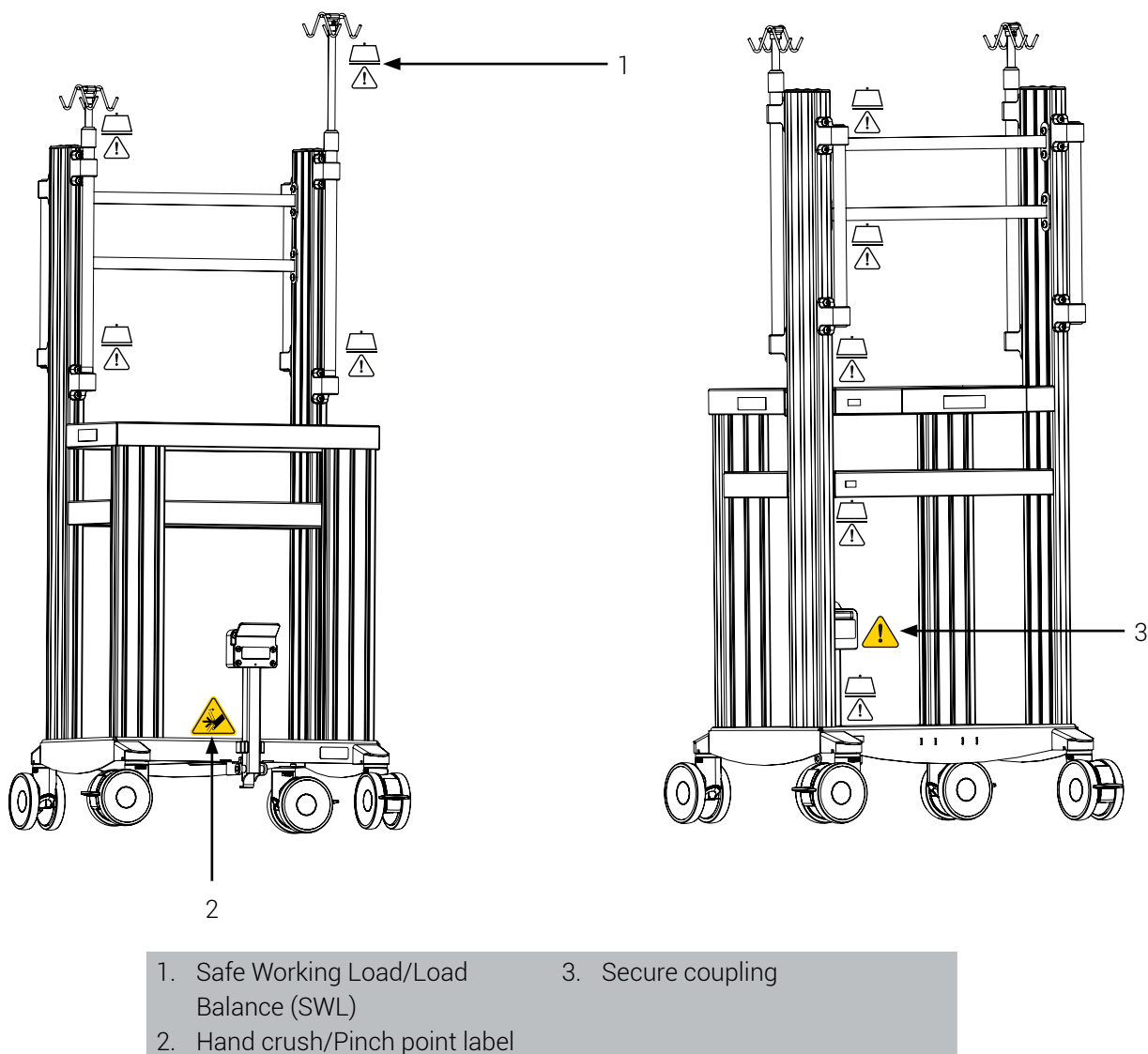
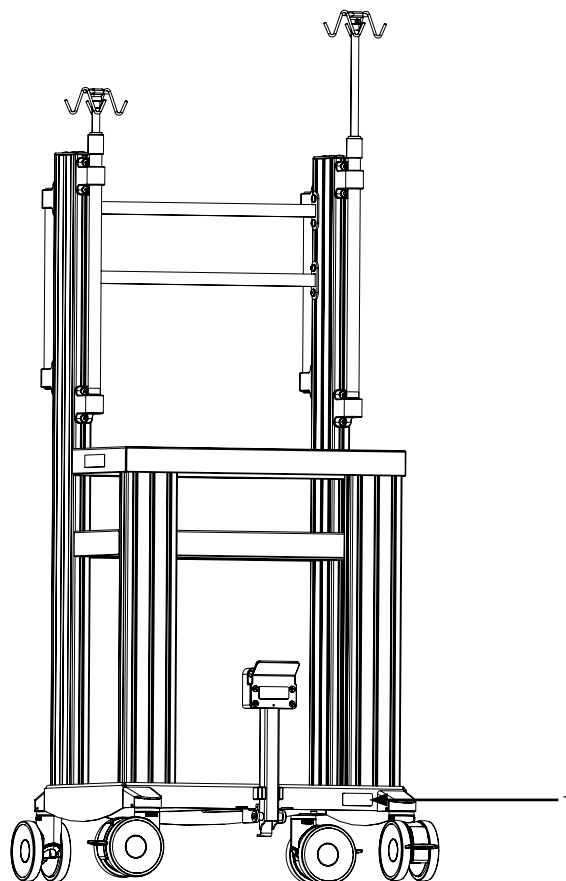


Figure 1: Location of the warning labels

2.2.2. Manufacturing Label



1. Manufacturing label

Figure 2: Location of the manufacturing label

2.3. Safety Measures

Carefully read all the safety measures herein before installing, operating, or performing the maintenance of the Technimount product.



WARNING – Hand Crush/Pinch Point

Keep fingers away from the extremity of the fold-up hitch, its clip and quick release mechanism during coupling operations. The mobile parts can represent a risk of pinching.



WARNING – Risk of Injury

- Always ensure that the coupling between the fold-up hitch of the transport cart and the THS™ coupling device under the incubator is properly secured before use, to avoid all risks of disconnection between the patient and the life support medical equipment and disconnection of the transport cart. If the red part on the stem of the quick release button is visible, it indicates that the system's locking mechanism is not properly secured.
- Regulations and standards for safety are the sole responsibility of the end user. Ensure that the installation specifications meet the local and regional compliance requirements before use. Product incompatibility could cause unpredictable functioning resulting in injury to the patients or clinical staff.



WARNING – General Warning

- **Do not perform maintenance** on the Technimount product before having received the proper training.
- The administrator is responsible for providing proper training to any personnel who will install, operate and perform maintenance on Technimount products.
- Improper use of the Technimount product may damage the device or cause injury to the patients or clinical staff.
- If any serious incident occurs with the mounting solution, immediately stop using the product, report this incident to Technical Support at technicalsupport@technimount.com and the applicable regulatory agency.
- Always keep the user manual and operating guide within reach of the cart, even if the system is subsequently sold, to prevent undue risk to the product, patients, and clinical staff. The user documentation is an integral part of the system.

**CAUTION – Safe Handling and Operation**

- **Do not fasten** or unfasten a gas cylinder on the cart during transfers to avoid risks of damage, equipment falling or injuries to the patients or clinical staff. Always wait until the cart is immobilized before manipulating the straps. This mounting system was designed to transport type D-M15 and type E-M24 gas cylinders during intrahospital transfers.
- **Do not use** extension cables. If needed, use the provided power cords to power the medical equipment on the cart.
- **Do not use** the fold-up hitch as a foot rest. Always ensure the fold-up hitch is attached in its clip when the cart is detached from the incubator or when stored. When down, the fold-up hitch could cause tripping or tipping.
- Always slow the descent of the fold-up hitch when lowering to align with the THS™ coupling device. Lowering the fold-up hitch too fast or past the alignment point could cause risks of misalignment between the parts or damage the product.
- Always ensure that the UPS unit is disconnected and rolled onto the cable management hook, once the unit has been fully charged and/or before moving the cart.
- Always ensure that the braking system is applied to all four (4) dual wheel swivel casters when the THS Neonatal Cart is immobilized or not being used, to avoid tipping incidents.
- One (1) person is required to safely move the cart and two (2), to safely move the cart and incubator. For transfers with a patient, always refer to and follow the hospital's transfer protocols.

**CAUTION – Safe Practice**

- Always ensure that the quick release mechanism of the fold-up hitch is properly engaged and functional before use.
- Always ensure that the locking mechanisms of the support brackets of all the medical equipment installed onto the rail system and on the cart's surfaces are engaged and functional before use.
- Always pay close attention to the condition of the four (4) brakes and the quick release mechanism of the fold-up hitch, to prevent undue risk to the system, patients, and clinical staff. Follow the recommended maintenance plan and its guidelines, as described in this user manual and operation guide.
- Practice installing, removing, and safely operating the system until the manipulations have been perfected, before use with patients. Improper use of any Technimount product may damage the system or cause injury to the patients or clinical staff.

**CAUTION – Working Load/Load Balance**

Do not overload the cart to avoid tipping incidents or risks of collapsing. The total Safe Working Load (SWL) is 136.1 kg (300 lb).

- **Do not overload** the top shelf and UPS protector/shelf. The maximum weight capacity is 27.22 kg (60 lb), per shelf.
- **Do not overload** the UPS shelf (Uninterruptible Power Supply). The maximum weight capacity is 68.04 kg (150 lb).
- **Do not overload** the horizontal rails. The maximum weight capacity is 18.14 kg (40 lb), per rail.
- **Do not overload** the IV poles:
 - The maximum weight capacity for the top part of the IV pole is 4.5 L (160 oz liq.), per pole.
 - The maximum weight capacity for the bottom part of the IV pole is 9.07 kg (20 lb), per pole.

**CAUTION – Follow the Instruction for Use**

- Always read and abide by all the safety guidelines identified, as well as follow instructions provided within this document.
- Refer to the incubator's user manual for safety precautions and user instructions for the safe use of the Draeger Babyleo® TN500 incubator.
- This cart may contain optional medical equipment. Refer the user manual of all the medical equipment used with the THS Neonatal Cart for the safety guidelines and user instructions for the safe use of each device.

3. Technical Specifications

Product Name	THS™ Neonatal Cart
Description	Transport cart designed to aid clinical staff move the Draeger Babyleo® TN500 incubator and the multiple medical devices that are essential to patient care during intrahospital transfers
Product Code	MED-FB5EP2I4T
Features	<ul style="list-style-type: none"> - 4 5-in. Dual wheel swivel casters with braking system - Simple and secure THS™ coupling device for the Babyleo, compatible for installation at patient foot end and patient head end of the incubator - Fold-up hitch to provide the clinical staff with greater leg clearance - Quick release mechanism on the fold-up hitch - Reinforced UPS shelf - UPS on-off switch protective panel - Top shelf - Rail system that allows for storage and a multitude of configurations for the medical devices on the vertical and horizontal surfaces - 330 mm (13 in.) handles - Extendable IV poles
Operating Environment	Hospital
Compliance	Tested in compliance with IEC60601-1 (applicable mechanical sections)
Compatible Medical System	Draeger Babyleo® TN500
Dimensions (L X P X H)	65.3 X 59 X 162.6 cm (25.75 X 23.25 X 64 in.)
Weight	Transport cart (without options or accessories): 54.5 kg (120 lb)
Composition	<ul style="list-style-type: none"> - Dual wheel swivel casters: polyamide and polyurethane - THS™ coupling device: aluminum 6061-T6, white anodized finish and acetal - Fold-up hitch: stainless steel, acetal and aluminum, silver anodized finish - Transport cart: aluminum 6061-T6, silver anodized finish and stainless steel, gray powder paint - Rail system: stainless steel - Handles: aluminum 6061-T6, silver anodized finish - IV poles: aluminum 6061-T6, silver anodized finish and stainless steel
Safe Working Load (SWL)	<ul style="list-style-type: none"> - Transport cart: 136.1 kg (300 lb) total - Top shelf, UPS protector/shelf: 27.22 kg (60 lb), per shelf - UPS shelf: 68.04 kg (150 lb) - Horizontal rails: 18.14 kg (40 lb), per rail - IV poles (top part): 4.5 L (160 oz liq.), per pole - IV poles (bottom part): 9.07 kg (20 lb), per pole
Operating Temperature	- 31° F to 113° F (- 35° C to 45° C)

Installation	<ul style="list-style-type: none"> - THS™ coupling device screwed under the incubator (head end and/or foot end). Once installed, the THS™ coupling device is coupled and secured in the fold-up hitch - Medical devices are attached on the rail system (vertically and horizontally) - Quick release mechanism on the fold-up hitch - Breaking system on all dual wheel swivel casters
Model & Configuration Options	<ul style="list-style-type: none"> - Type D-M15 and type E-M24 mounting bracket for 2 gas cylinders - Support plate for the Draeger mounting system with SLIDE adapter - Support plate for the Serres® suction canister - Medical grade power bar with surge protection (4 or 6 outlets) - UPS cable management hook - Universal Mounting Base - Bracket Pro® Serie - Contact Customer Service at customerservice@technimount.com for more options

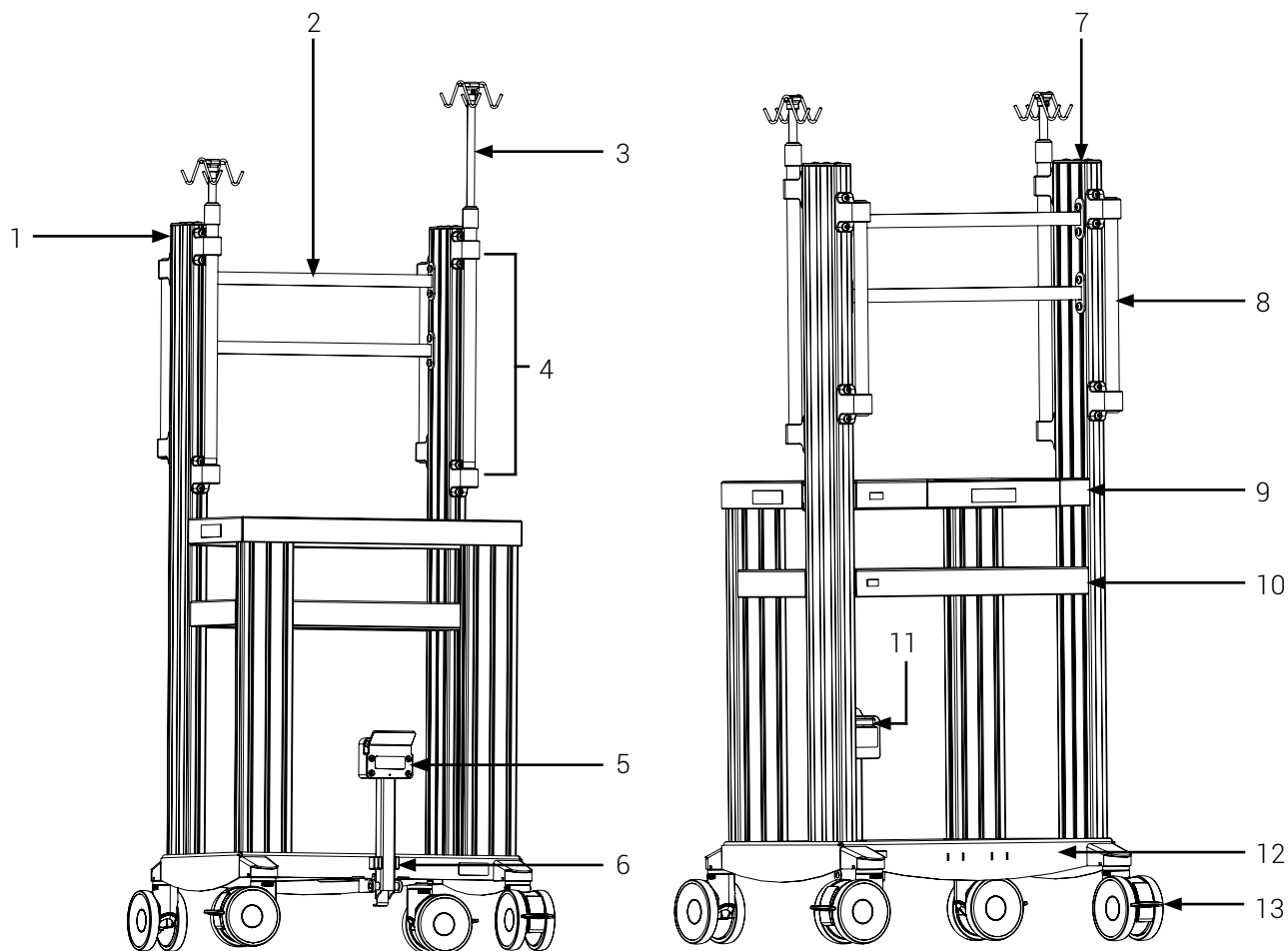
4. Unpack the THS Neonatal Cart

1. Inspect the shipping box(es) for signs of damage before accepting shipment. Take pictures and report them promptly if applicable.
2. Move the shipping box(es) to the location of the installation.
3. Open the shipping box(es).
4. Unpack the box(es) and ensure that all shipping and packaging materials have been properly removed, prior to installation.

NOTE : Keep all packaging material for future use.

5. Identify all the components and hardware included for the installation, then set aside. Refer to Section 7 for the required parts.
6. Inspect the items for signs of damage. Take pictures and report them promptly if applicable.

5. THS Neonatal Cart Illustrated Parts



- | | |
|----------------------------|--|
| 1. Vertical rail system | 9. Top shelf |
| 2. Horizontal rail (2X) | 10. UPS protector/shelf |
| 3. Expandable IV pole (2X) | 11. Quick release mechanism of the fold-up hitch |
| 4. IV pole bracket (2X) | 12. UPS shelf |
| 5. Fold-up hitch | 13. Dual wheel swivel caster with breaking system (4X) |
| 6. Fold-up hitch clip | |
| 7. Cap (2X) | |
| 8. Handle (2X) | |

Figure 3: THS Neonatal Cart illustrated parts

6. THS Neonatal Cart Orientation Diagram

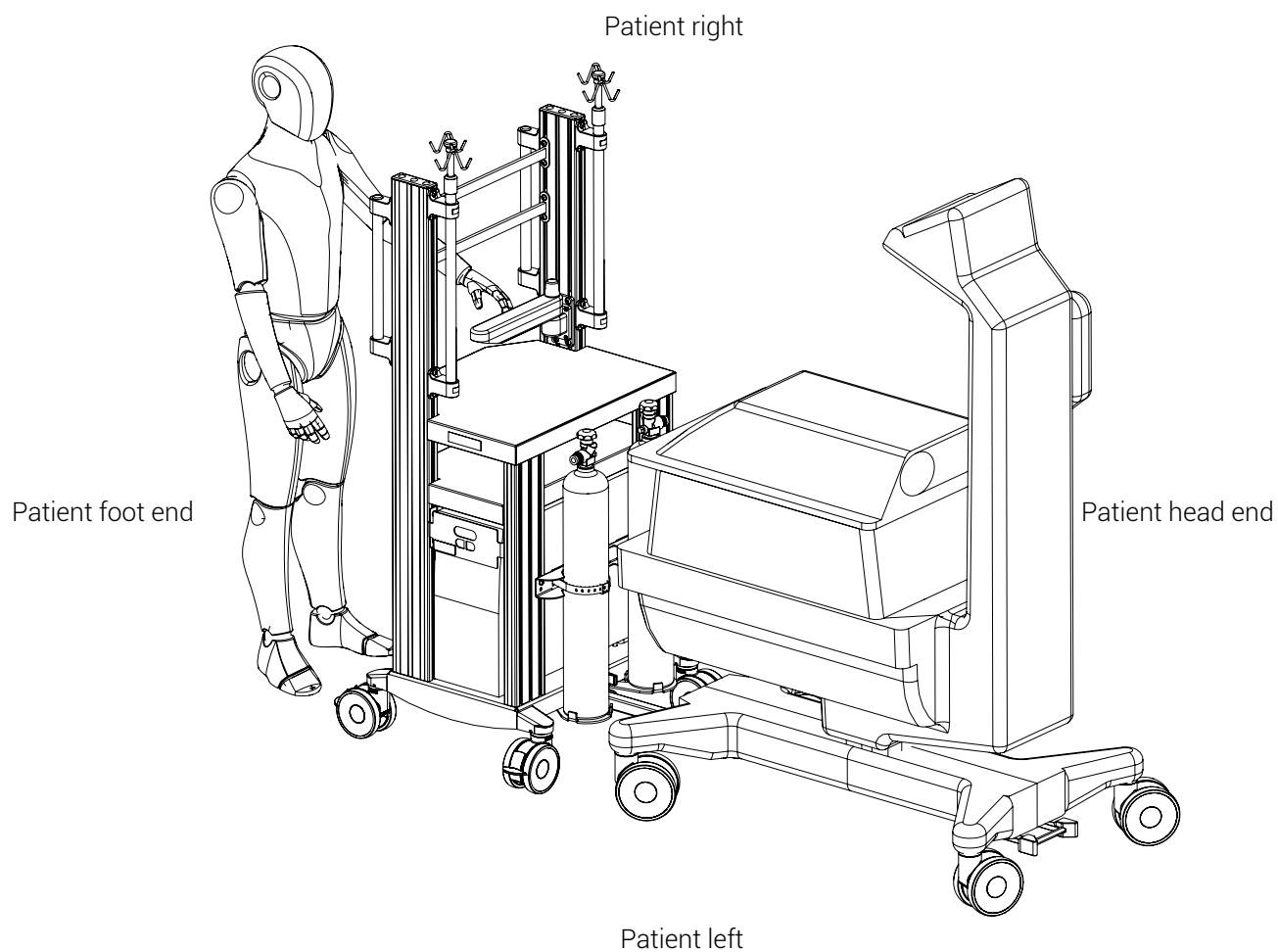


Figure 4: THS Neonatal Cart orientation diagram, illustrated with the Babyleo TN500 incubator

7. Install the Required Parts



WARNING – Part Breakage

Do not use powered tools to screw the hardware during installation, as there is a potential risk of damage to the threads. All the provided hardware has been previously prepped with thread locking adhesive and is ready to be used as is.

NOTE : Image references within this user manual may differ from actual product. For assistance, please contact Technical Support at techsupport@technimount.com.

NOTE : Technimount reserves the right to change part numbers and products without notice. Please contact Customer Service at customerservice@technimount.com to ensure product options and availability.

7.1. Required Tools

- Allen key 3/16 in.
- Key 9/16 in. (2X)

7.2. Install the IV poles

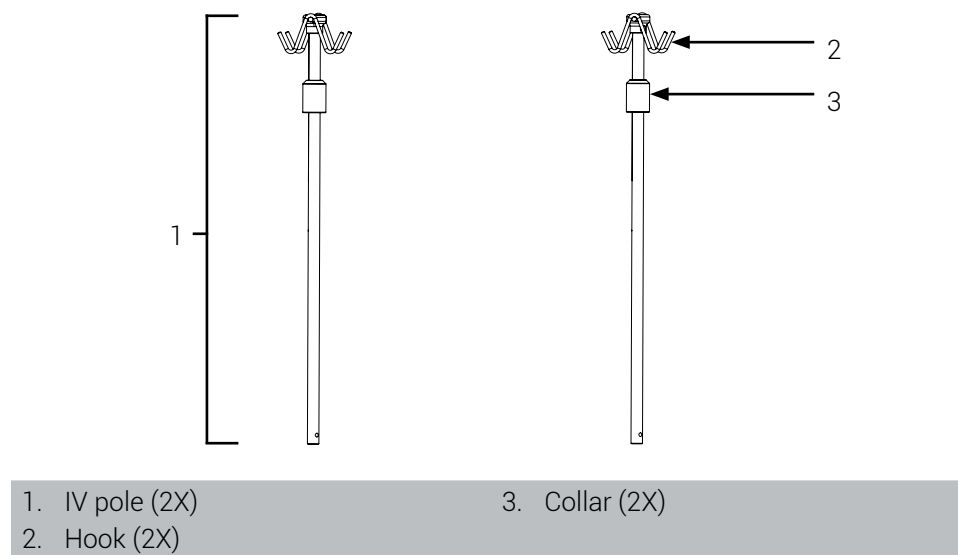


Figure 5: IV poles assembly parts

1. Remove the four (4) screws on each IV pole bracket (Figure 6 A).
2. Insert an IV pole in each bracket (Figure 6 B), then rotate the collars clockwise to tighten, ensuring the IV poles are secured.

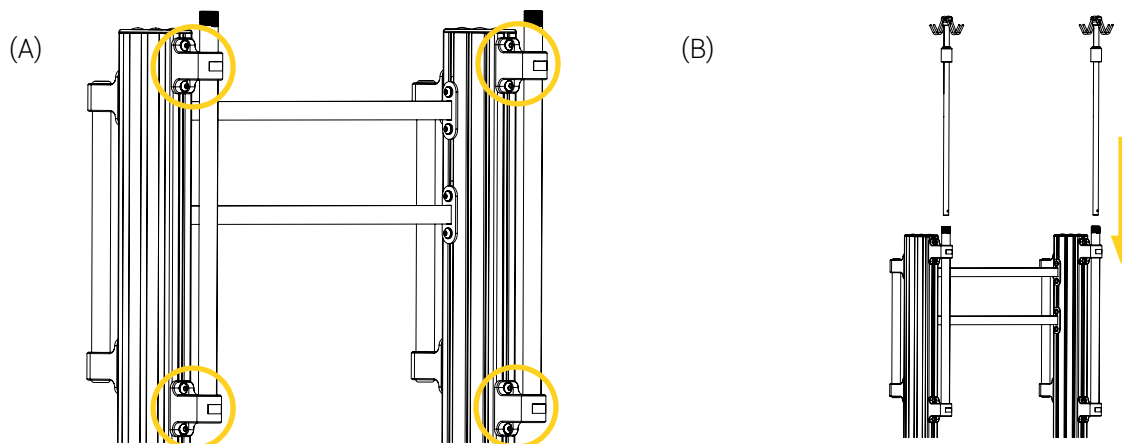


Figure 6: Installation of the IV poles

3. If required, glide the IV pole brackets up or down the vertical rail to adjust their height and conform to the specific positioning needs of the equipment (Figure 7).

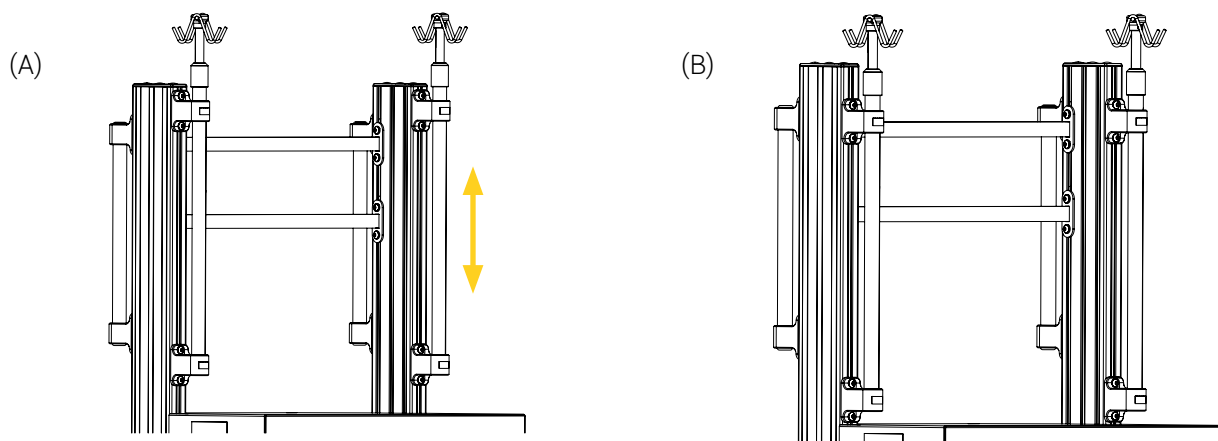
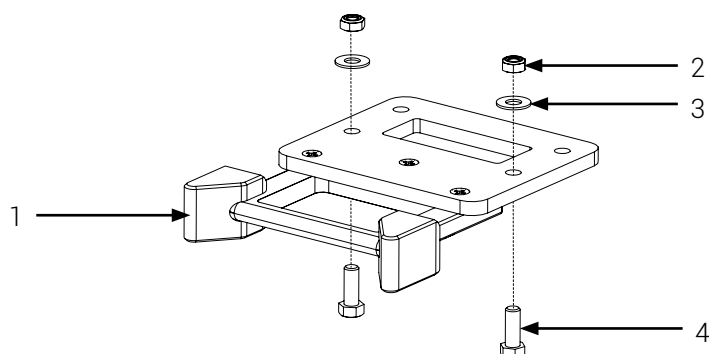


Figure 7: Height adjustment of the IV pole brackets

4. Tighten the four (4) screws of each IV pole bracket using an Allen key 3/16 in.
5. Ensure that the brackets are properly secured on the vertical rail system. If the brackets do not move, they are properly secured.

The installation of the IV poles is complete.

7.3. Install the THS coupling device



- | | |
|------------------------|---|
| 1. Guide (2X) | 4. Flat head hex screw 3/8-16 X 1 in., (4X) |
| 2. Locknut 3/8-16 (4X) | |
| 3. Washer (4X) | |

Figure 8: THS coupling device assembly parts

NOTE : The THS coupling device can be installed under the incubator at patient head end (Figure 9 A) and patient foot end (Figure 9 B). The screw holes used for the installation will depend on which end of the incubator the THS coupling device is installed.

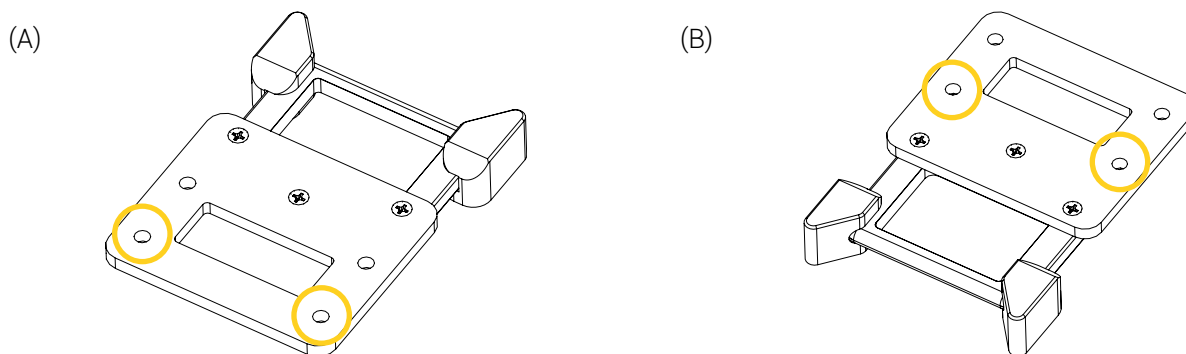


Figure 9: THS coupling device screw holes

7.3.1. Install the THS coupling device at Patient Foot End

1. Ensure to have applied all four (4) brakes on the incubator.
2. Locate the panel located under the incubator, patient foot end.
3. Remove the three (3) screws and panel. If required, refer to the incubator operation manual for proper use and recommendations.
4. Align the patient foot end installation screw holes of the THS coupling device with the screw holes under the incubator (Figure 9), then tighten the two (2) flat head hex screws 3/8-16 X 1 in., two (2) washers and two (2) locknuts 3/8-16, using two (2) keys 9/16 in. (Figure 10).

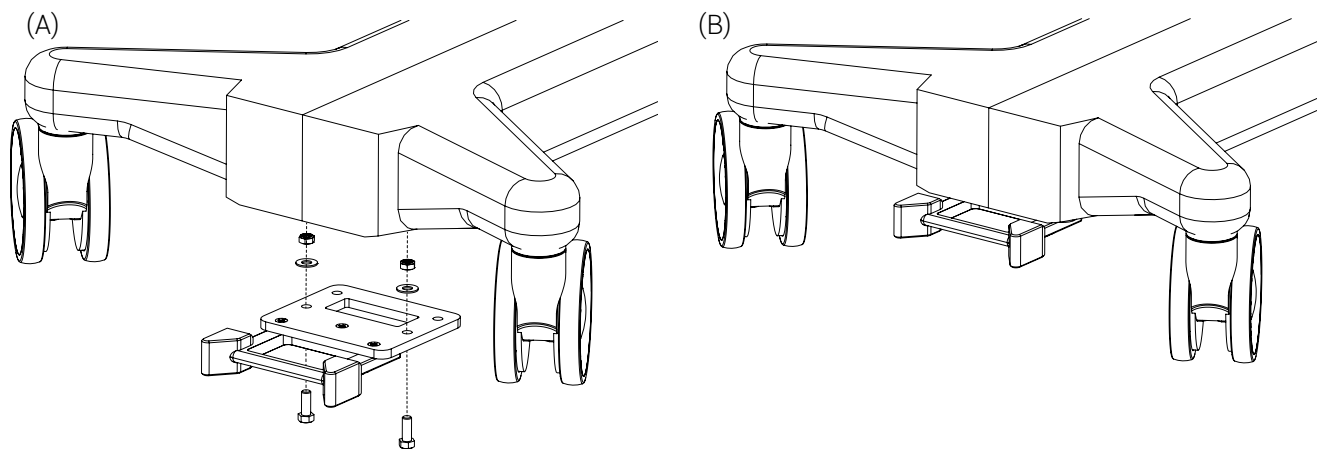


Figure 10: THS coupling device installed at patient foot end of the incubator

5. Ensure that the THS coupling device is secured on the incubator. If the THS coupling device does not move, it is properly secured.
6. Reinstall the panel under the incubator (three (3) screws).

The installation of the THS coupling device at patient foot end of the incubator is complete.

7.3.2. Install the THS coupling device at Patient Head End

1. Ensure to have applied all four (4) brakes on the incubator.
2. Locate the panel located under the incubator, patient head end.
3. Remove the three (3) screws and panel. If required, refer to the incubator operation manual for proper use and recommendations.
4. Align the patient foot end installation screw holes of the THS coupling device with the screw holes under the incubator (Figure 9), then tighten the two (2) flat head hex screws 3/8-16 X 1 in., two (2) washers and two (2) locknuts 3/8-16, using two (2) keys 9/16 in. (Figure 11).

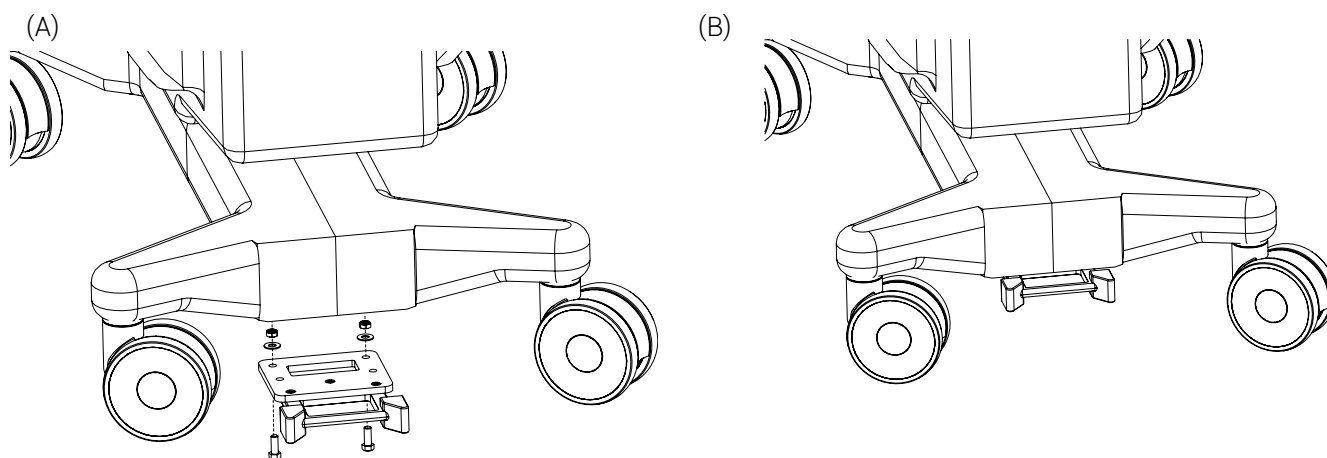


Figure 11: THS coupling device installed at patient head end of the incubator

5. Ensure that the THS coupling device is secured on the incubator. If the THS coupling device does not move, it is properly secured.
6. Reinstall the panel under the incubator (three (3) screws).

The installation of the THS coupling device at patient head end of the incubator is complete.

8. Install the Optional Parts



WARNING – Part Breakage

Do not use powered tools to screw the hardware during installation, as there is a potential risk of damage to the threads. All the provided hardware has been previously prepped with thread locking adhesive and is ready to be used as is.

NOTE : Image references within this user manual may differ from actual product. For assistance, please contact Technical Support at techsupport@technimount.com.

NOTE : Technimount reserves the right to change part numbers and products without notice. Please contact Customer Service at customerservice@technimount.com to ensure product options and availability.

8.1. Required Tools

- Allen key 3/16 in.
- Key 1/2 in.
- Key 9/16 in. (2X)
- Allen key 5 mm
- Screwdriver

8.2. Install the Type D-M15 and Type E-M24 Gas Cylinder Mounting Bracket

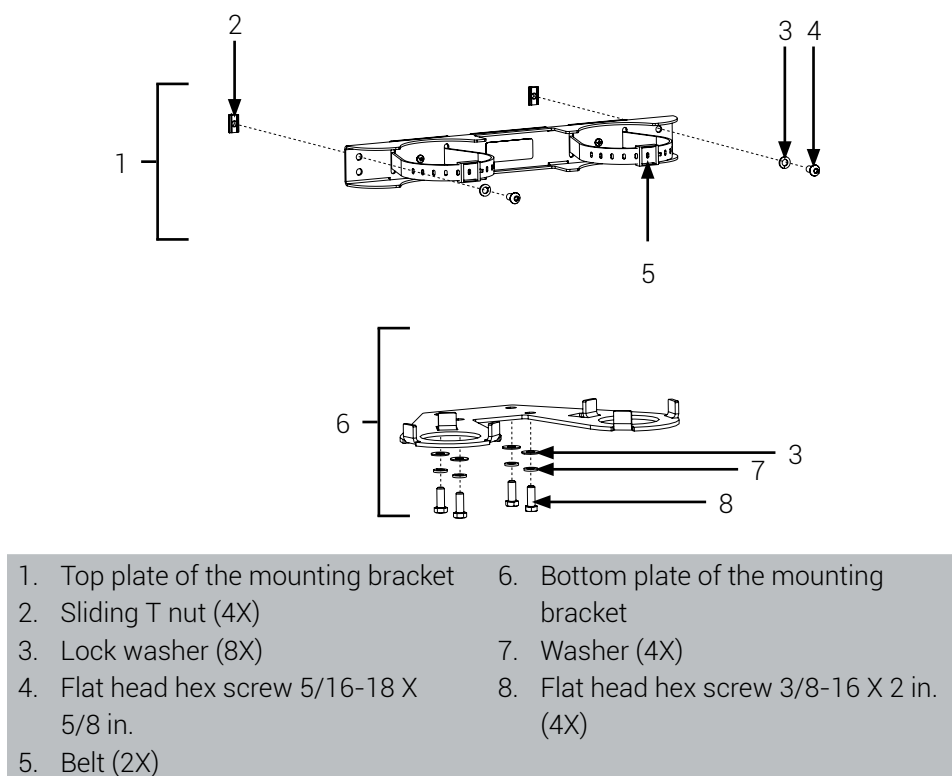


Figure 12: Gas cylinder mounting bracket assembly parts

1. Ensure to have applied all four (4) brakes on the transport cart.
2. Align the screw holes of the bottom plate of the mounting bracket and UPS shelf, then tighten the four (4) flat head hex screws 3/8-16 X 2 in., four (4) washers and four (4) Nylon-insert locknut 3/8-16, using two (2) keys 9/16 in. (Figure 13).
3. Ensure that the bottom plate is properly secured on the UPS shelf. If the bottom plate does not move, it is properly secured.

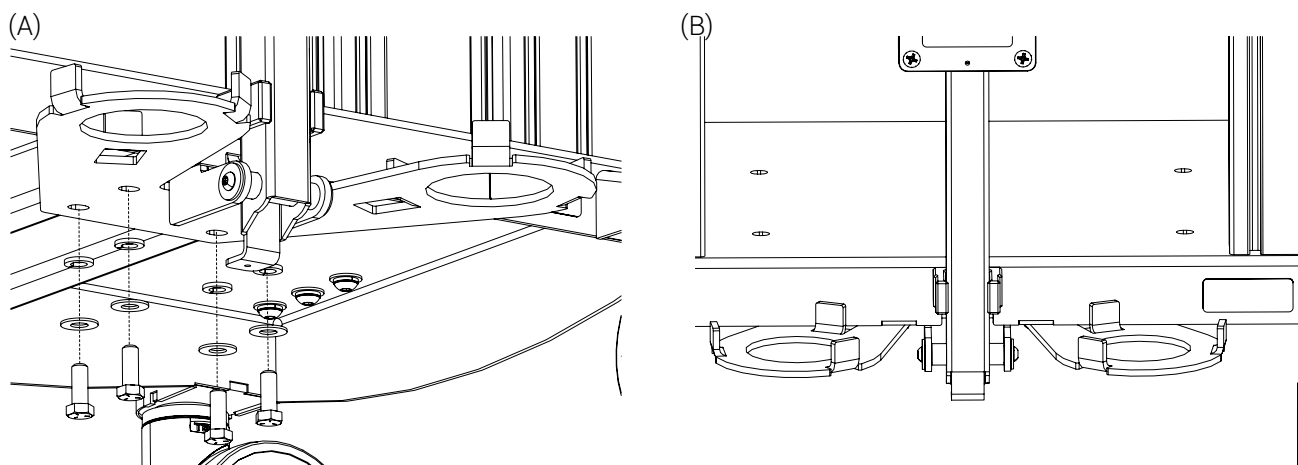


Figure 13: Installation of the bottom plate of the gas cylinder mounting bracket

4. Insert two (2) sliding T nuts in each vertical rail (Figure 14 A).
5. Align the screw holes of the top plate of the mounting bracket and the sliding T nuts, then only partially tighten the four (4) button head hex socket screws 5/16-18 X 5/8 in. and four (4) lock washers, using an Allen key 3/16 in. (Figure 14 B)

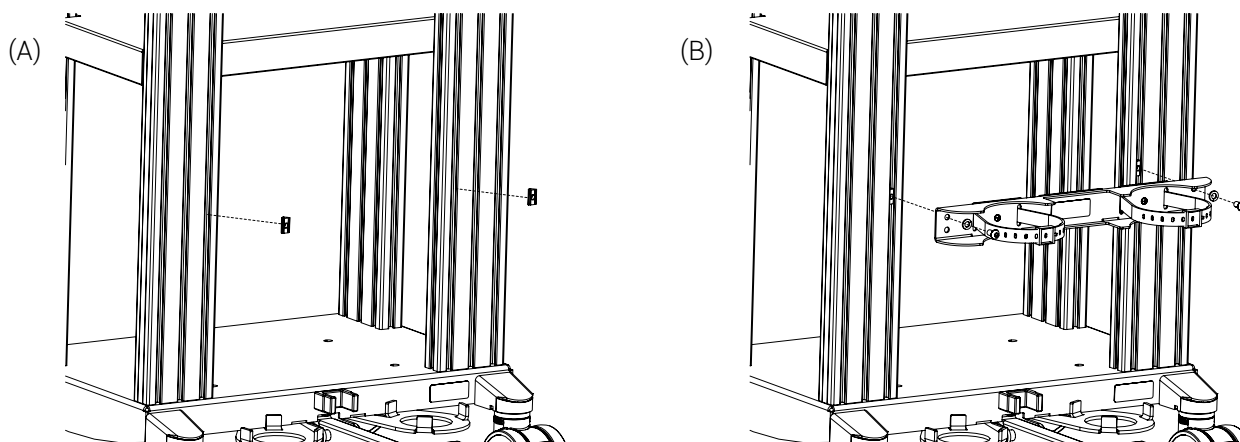


Figure 14: Installation of the top plate of the gas cylinder mounting bracket

6. Depending on the type of cylinder, glide the top plate of the mounting bracket up or down the vertical rail at a height of 9.8 in. to 11.8 in. (25-30 cm) from the UPS shelf, then tighten the four (4) screws using an Allen key 3/16 in. (Figure 15).

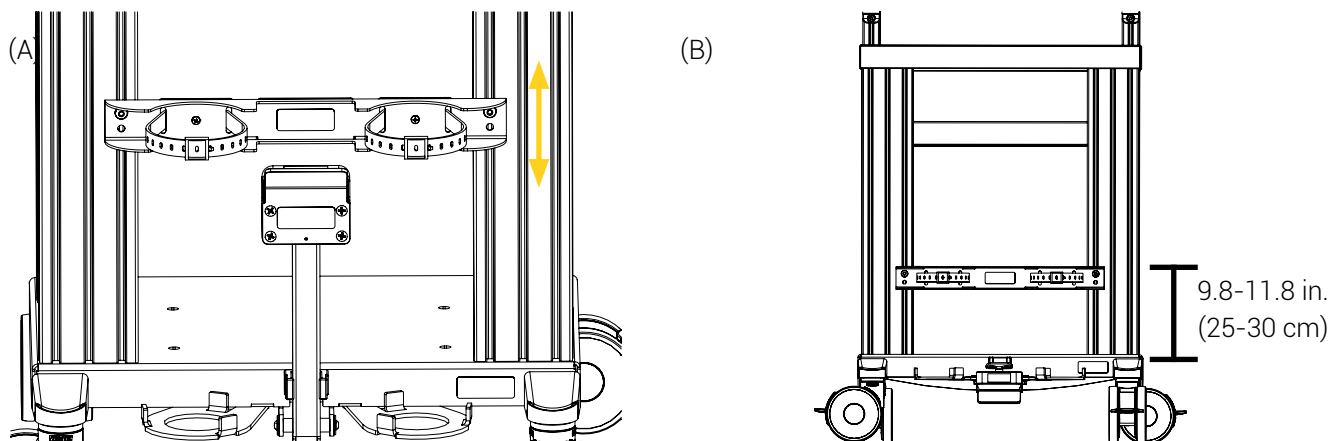


Figure 15: Height adjustment of the top plate of the gas cylinder mounting bracket

The installation of the type D-M15 et type E-M24 gas cylinder mounting bracket is completed.

8.3. Install the Support Plate for the Serres Suction Canister

NOTE : A Serres adapter is required for the installation of this type of suction canister. The adapter and canister are user provided.

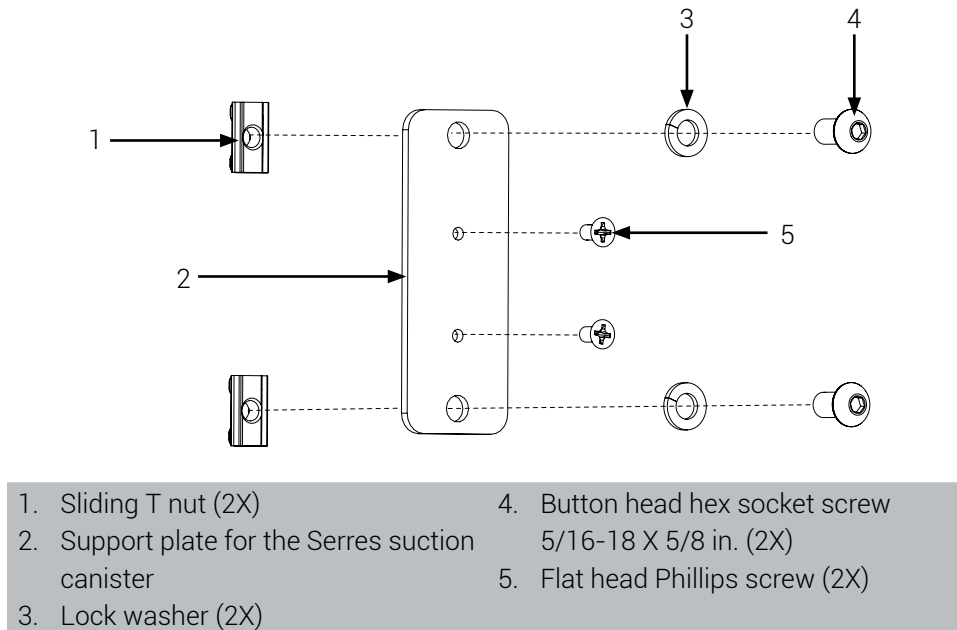


Figure 16: Support plate for the Serres suction canister assembly parts

1. Ensure to have applied all four (4) brakes on the transport cart.
2. Insert two (2) sliding T nuts on the vertical rail of your choice (Figure 17 A). The rail chosen for the installation of the Serres suction canister depends on the specific positioning needs of the equipment.
3. Align the screw holes of the support plate and the sliding T nuts, then only partially tighten the two (2) button head hex socket screws 5/16-18 X 5/8 in. and two (2) lock washers, using a screwdriver and Allen key 3/16 in. (Figure 17 B).
4. Install the Serres adapter on the support plate using two (2) flat head Phillips screws and a screwdriver (Figure 17 C).

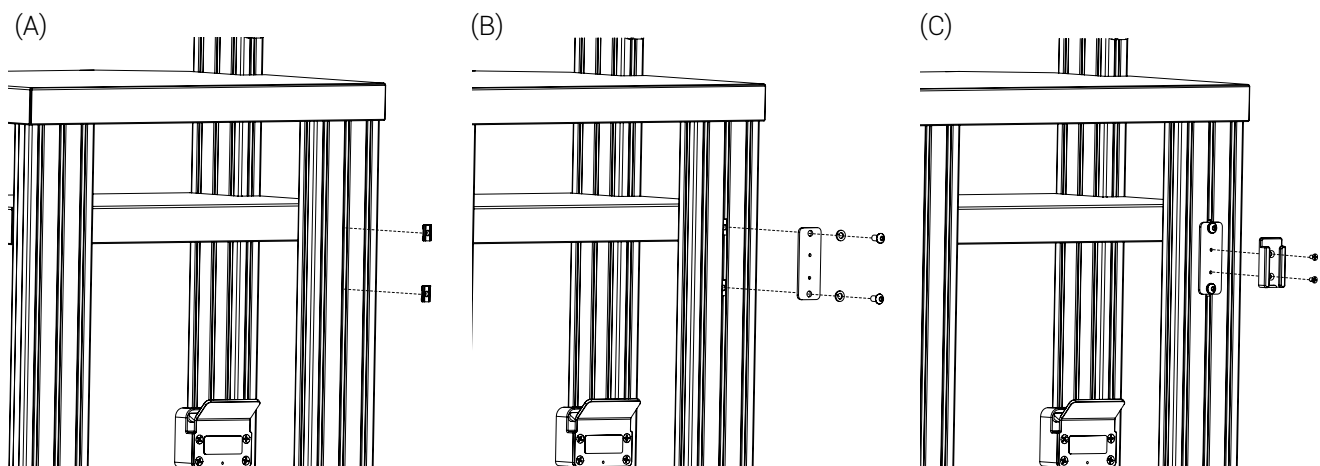


Figure 17: Installation of the support plate and Serres adapter

5. Insert the built-in bracket of the suction canister in the adapter (Figure 18).

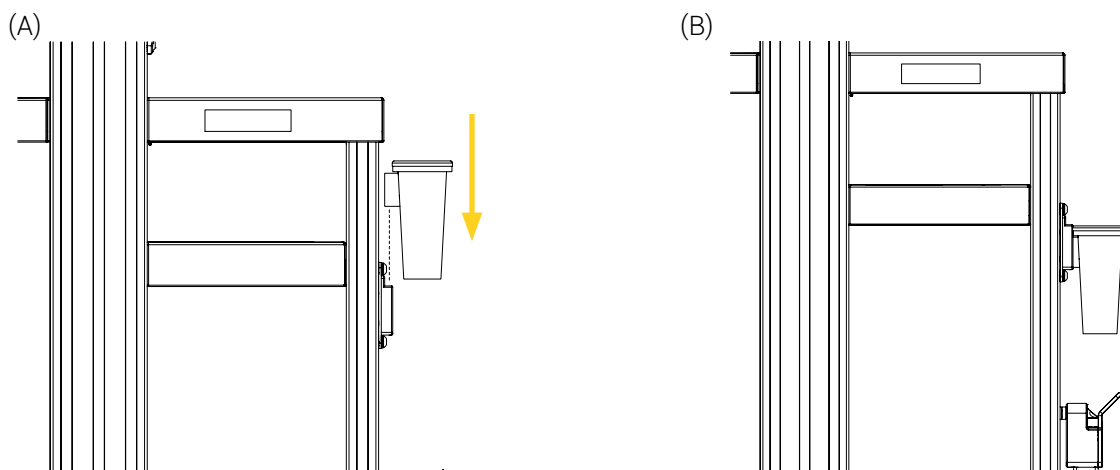


Figure 18: Installation of the Serres suction canister

6. If required, glide the support plate up or down the vertical rail to adjust the height and conform to the specific positioning needs of the equipment (Figure 19).

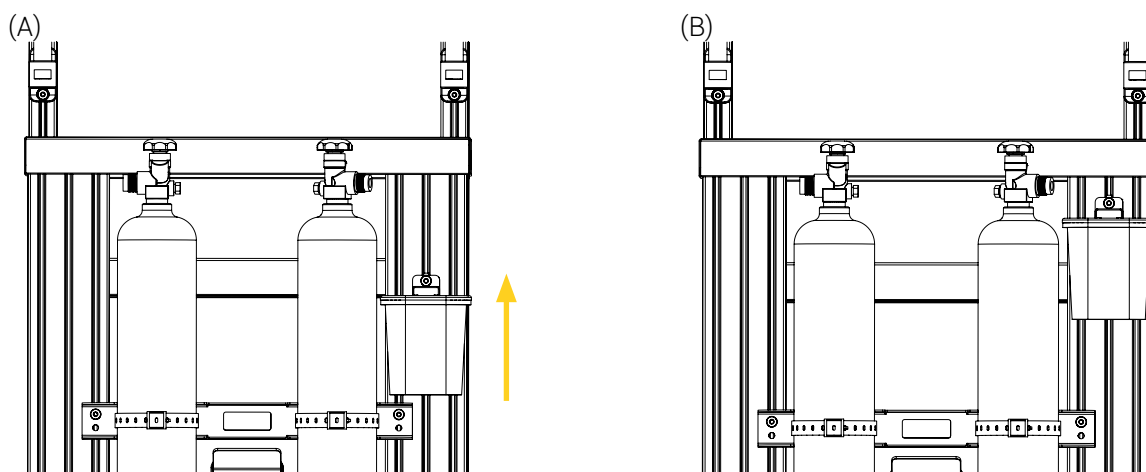
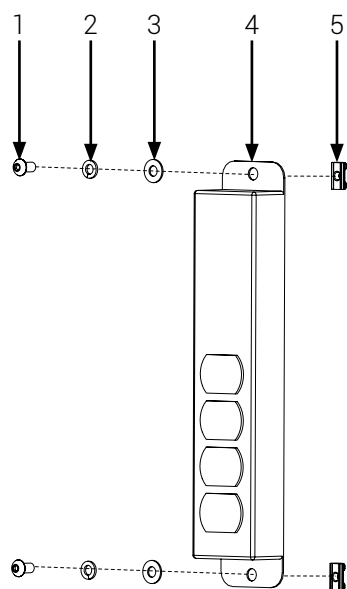


Figure 19: Height adjustment of the Serres suction canister support plate

7. Tighten the two (2) button head hex socket screws 5/16-18 X 5/8 in. using a screwdriver and Allen key 3/16 in.

The installation of the Serres suction canister support plate is completed.

8.4. Install the Medical Grade Power Bar with Surge Protection



- | | |
|---|--------------------------|
| 1. Button head hex socket screw
5/16-18 X 5/8 in. (2X) | 3. Washer (2X) |
| 2. Lock washer (2X) | 4. Power bar (4 outlets) |
| | 5. Sliding T nut (2X) |

Figure 20: Power bar assembly parts

1. Ensure to have applied all four (4) brakes on the transport cart.
2. Insert two (2) sliding T nuts on the vertical rail of your choice (Figure 21 A). The rail chosen for the installation of the power bar depends on the specific positioning needs of the equipment.
3. Align the screw holes of the power bar and the sliding T nuts, then only partially tighten the two (2) button head hex socket screws 5/16-18 X 5/8 in., two (2) lock washers and two (2) washers, using an Allen key 3/16 in. (Figure 21 B).

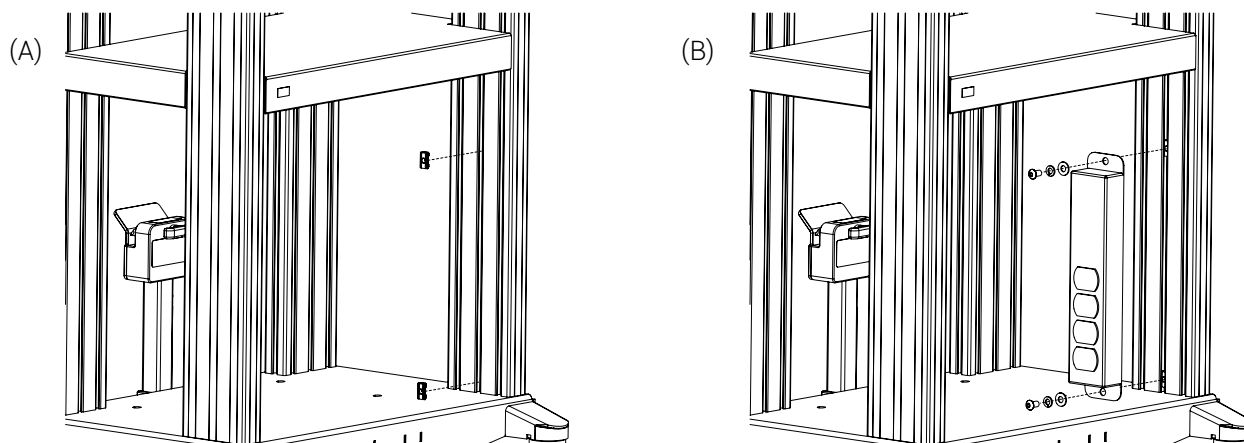


Figure 21: Installation of the power bar

4. If required, glide the power bar up or down the vertical rail to adjust the height and conform to the specific positioning needs of the equipment (Figure 22).

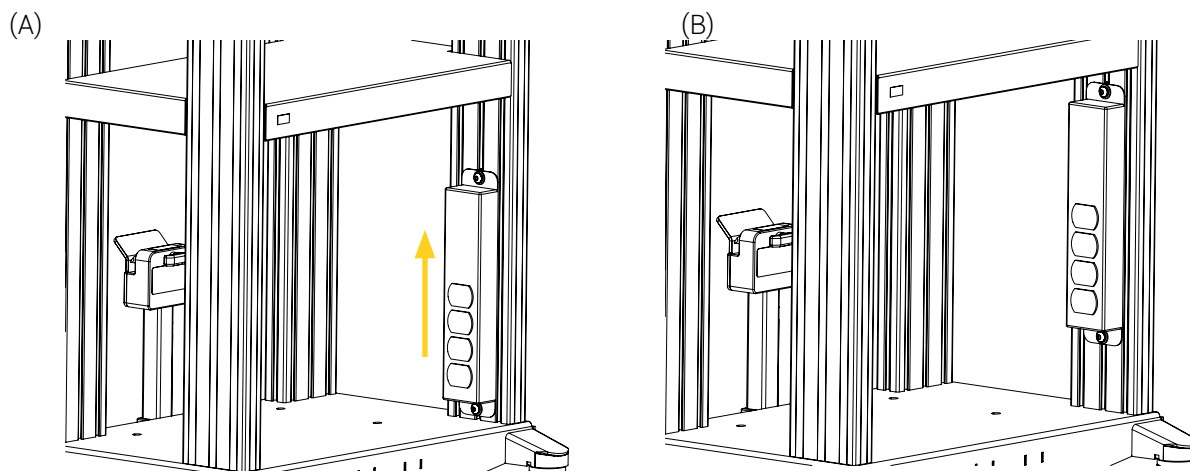


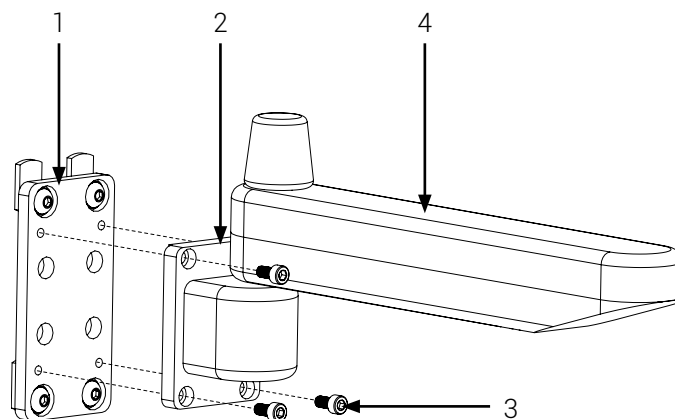
Figure 22: Height adjustment of the power bar

5. Tighten the two (2) button head hex socket screws 5/16-18 X 5/8 in. using an Allen key 3/16 in.

The installation of the medical grade power bar with surge protection is completed.

8.5. Install the Support Plate for the Draeger Mounting System with SLIDE Adapter

NOTE : The Draeger mounting system with SLIDE adapter and its screws are user provided. If required, refer to the mounting system's operation manual for proper use and recommendations.



- | | |
|---------------------------------|---|
| 1. Support plate | 4. Draeger mounting system (not included) |
| 2. SLIDE adapter (not included) | |
| 3. Screws (not included) | |

Figure 23: Support plate for the Draeger mounting system with SLIDE adapter assembly parts

1. Ensure to have applied all four (4) brakes on the transport cart.
2. Remove the four (4) SLIDE adapter screws of the Draeger mounting system using an Allen key 5 mm (Figure 24 A), and set them aside. The screws will be reused in the next step.
3. Align the screw holes of the support plate and the SLIDE adapter, then tighten the four (4) screws using an Allen key 5 mm (Figure 24 B).

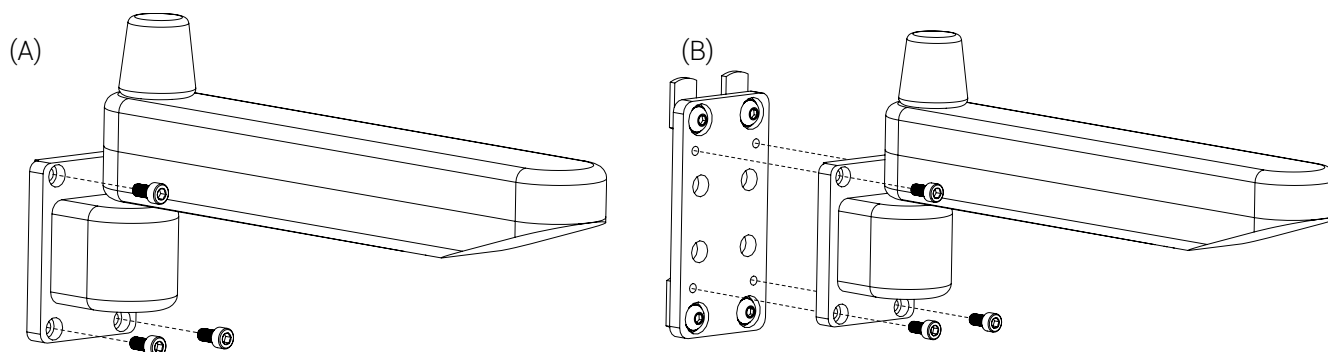


Figure 24: Installation of the support plate on the SLIDE adapter (3 of 4 screws illustrated)

4. Ensure that the support plate is properly secured on the SLIDE adapter. If the support plate does not move, it is properly secured.
5. On the rail of your choice, pull the rail cap upwards to remove it (Figure 25 A). The rail chosen for the installation of the mounting system depends on the specific positioning needs of the equipment.
6. Align to insert and glide the sliding T nuts of the support plate installed on the Draeger mounting system toward the bottom of the vertical rail (Figure 25 B).

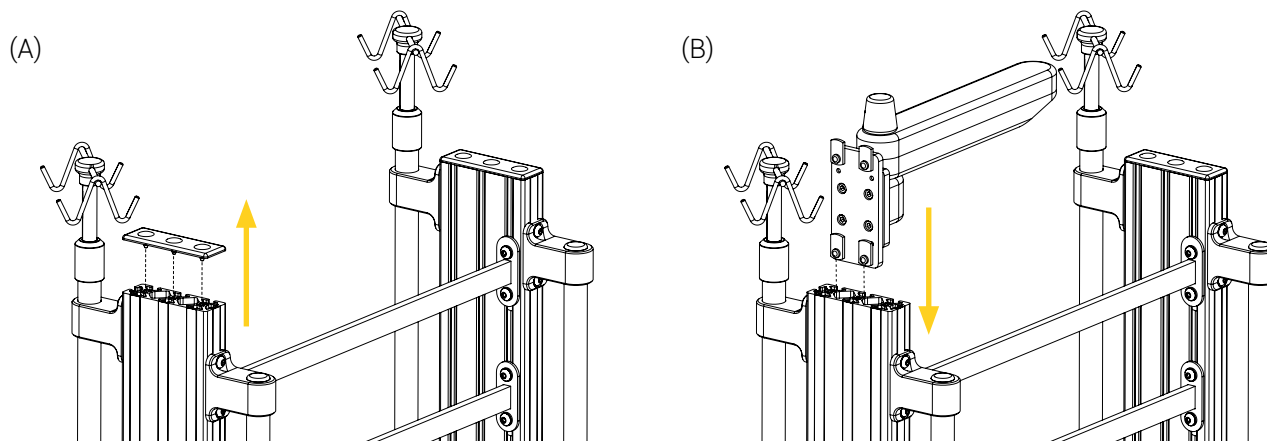


Figure 25: Installation of the Draeger mounting system

7. Reinstall the cap on top of the vertical rail, ensuring to press sufficiently to properly secure it on the rail (Figure 26).

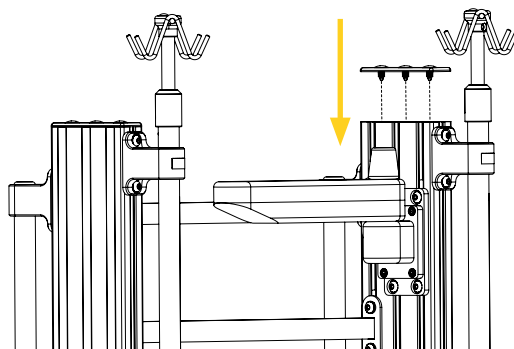


Figure 26: Draeger mounting system installed

8. If required, glide the Draeger mounting system up or down the vertical rail to adjust the height and conform to the specific positioning needs of the equipment (Figure 27).

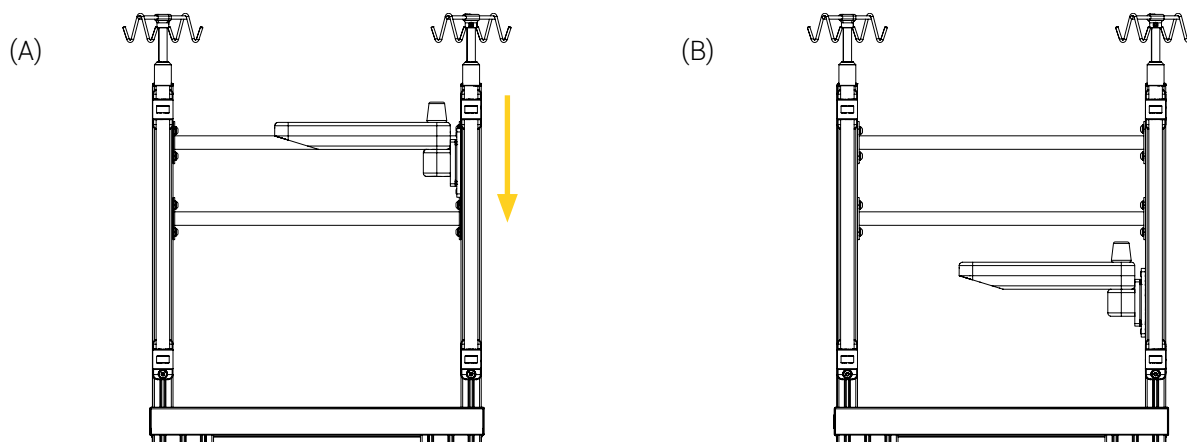


Figure 27: Height adjustment of the Draeger mounting system

9. Tighten the four (4) screws of the support plate using an Allen key 3/16 in. (Figure 28).

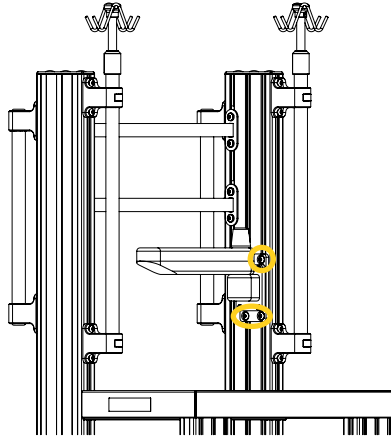
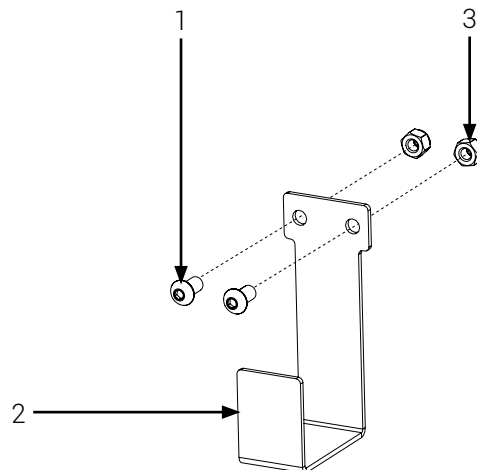


Figure 28: Support plate screws (3 of 4 illustrated)

The installation of the Draeger mounting system is completed.

8.6. Install the UPS Cable Management Hook



- | | |
|---|-----------------|
| 1. Button head hex socket screw
5/16-18 X 5/8 in. (2X) | 2. Hook |
| | 3. Locknut (2X) |

Figure 29: UPS cable management hook assembly parts

1. Ensure to have applied all four (4) brakes on the transport cart.
2. Insert two (2) sliding T nuts on the vertical rail of your choice (Figure 21 A). The rail chosen for the installation of the power bar depends on the specific positioning needs of the equipment. Locate the insert located in the middle of the mounting plate under the UPS protector/shelf, then tighten the two (2) button head hex socket screws and two (2) locknuts, using an Allen key 3/16 in. and key 1/2 in. (Figure 30).

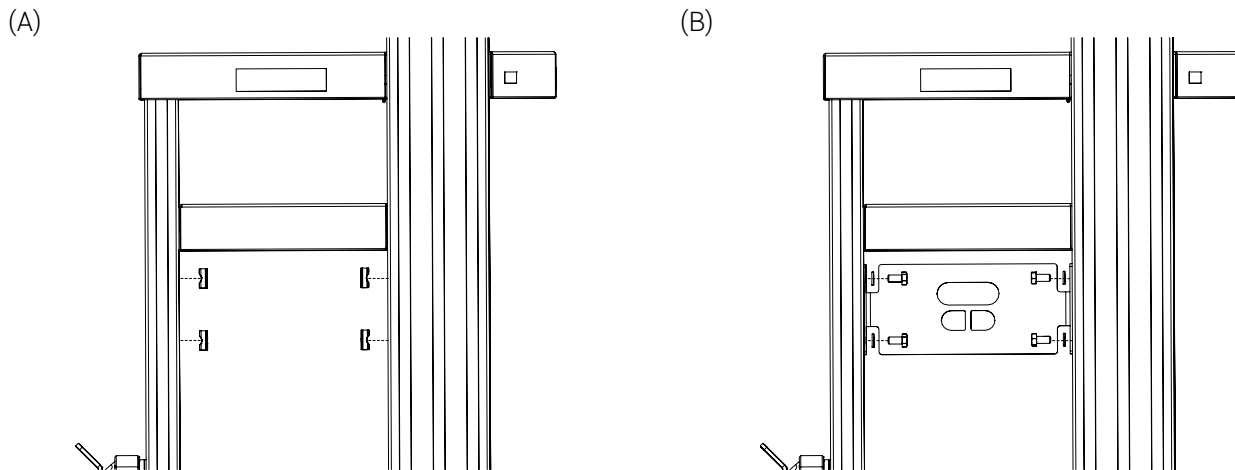
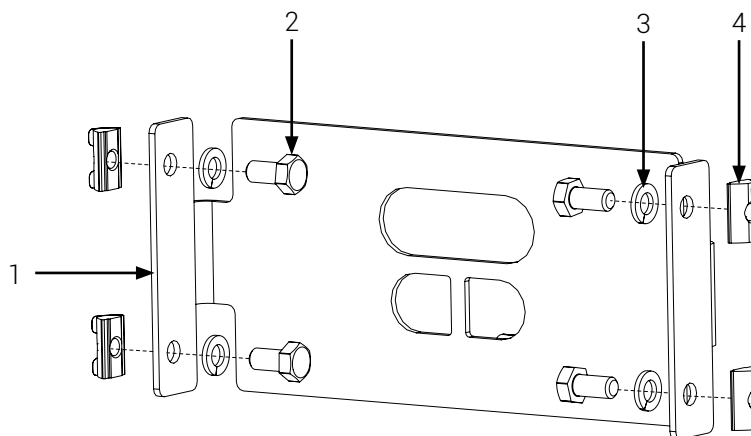


Figure 30: Installation of the UPS cable management hook

The installation of the UPS cable management hook is completed.

8.7. Install the UPS On-Off Switch Protective Panel



- | | |
|--|-----------------------|
| 1. Protective panel | 3. Lock washer (4X) |
| 2. Hex socket screw 5/16-18 X 5/8 in. (4X) | 4. Sliding T nut (4X) |

Figure 31: UPS on-off switch protective panel assembly parts

1. Ensure to have applied all four (4) brakes on the transport cart.
2. Insert four (4) sliding T nuts in each vertical rail, under the top shelf (Figure 32 A).
3. Align the screw holes of the protective panel and the sliding T nuts, then only partially tighten the four (4) hex head screws and four (4) lock washers, using a key 1/2 in. (Figure 32 B).

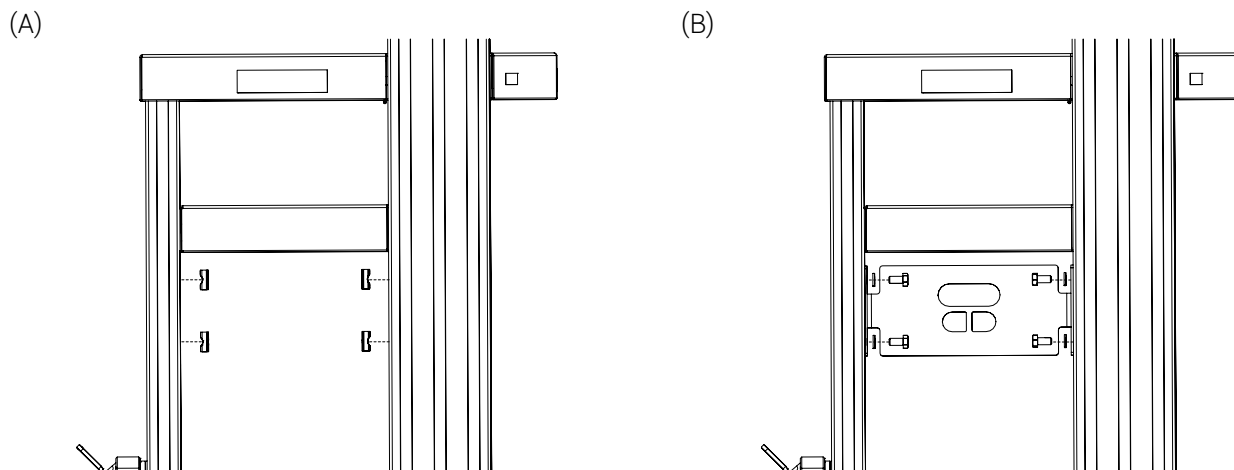


Figure 32: Installation UPS on-off switch protective panel

4. Glide the protective panel at a height of 15.75 in. (40 cm) from the UPS shelf, then tighten the four (4) screws using a key 1/2 in. (Figure 33).

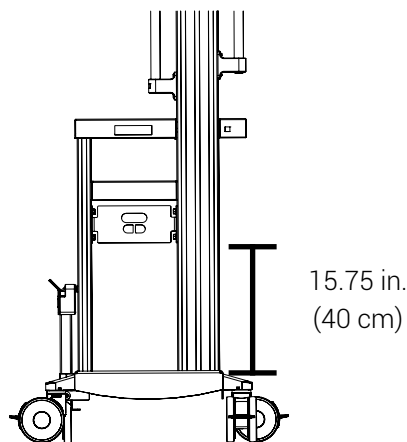


Figure 33: Height adjustment of the UPS on-off switch protective panel

The installation of the UPS on-off switch protective panel is completed.

8.8. Install the Uninterruptible Power Supply (UPS)

NOTE : The Uninterruptible Power Supply Ametek® Powervar (hereinafter referred to as UPS) is user provided. If required, refer to the UPS operation manual for proper use and recommendations.

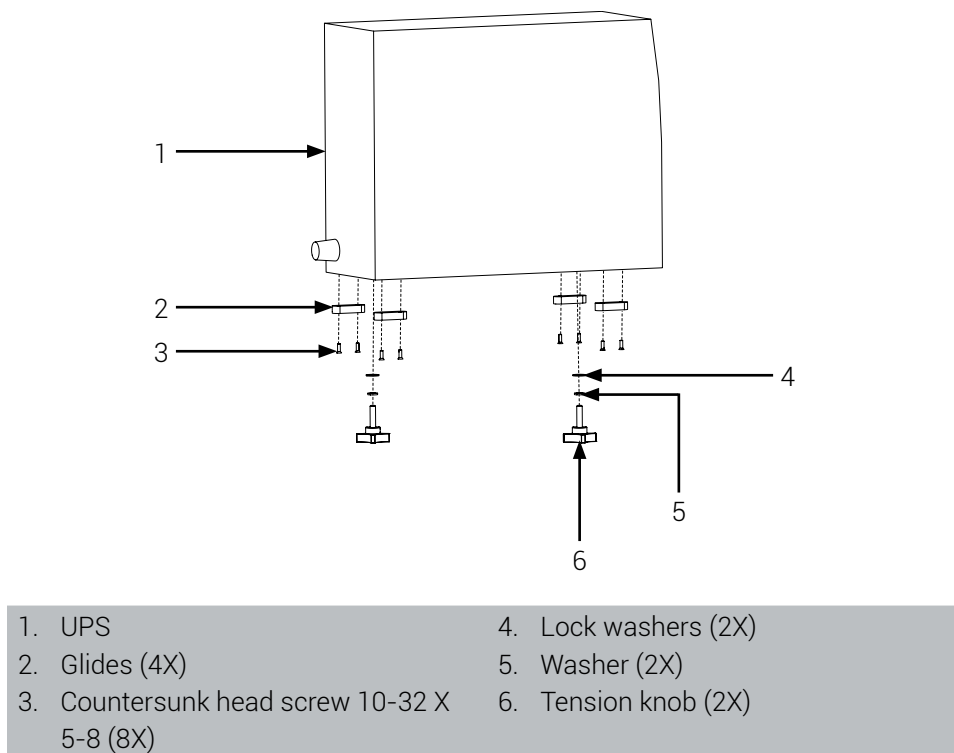


Figure 34: UPS assembly parts



CAUTION – Two (2) person Lift

Trained clinical staff are required to safely lift the UPS. If required, refer to the UPS user manual for safety guidelines and user instructions for the safe use of the device.

1. If required, remove the wheels and the feet under the UPS. If required, refer to the UPS operation manual for proper use and recommendations.
2. Install the four (4) glides under the UPS unit using eight (8) countersunk head screws 10-32 X 5-8, two (2) lock washers, two (washers) and a screwdriver (Figure 35).

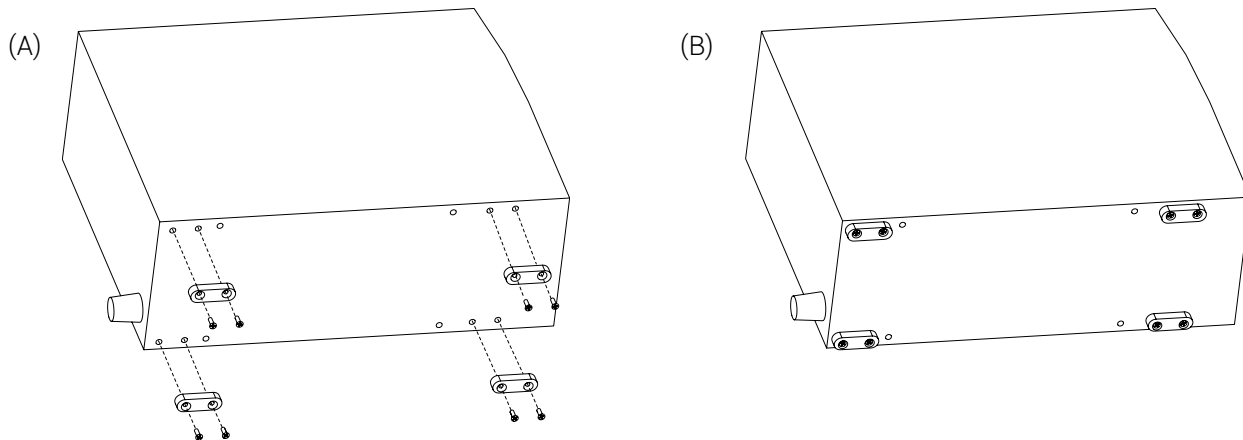


Figure 35: Installation of the glides

3. Ensure to have applied all four (4) brakes on the transport cart.
4. Install the unit on the UPS shelf, ensuring that the on/off button is inserted on the cart patient left (Figure 36).

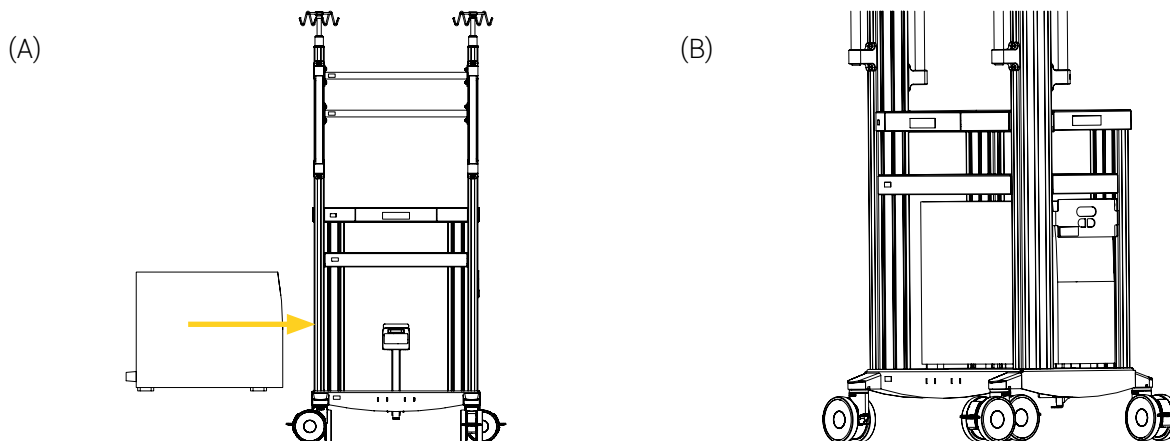


Figure 36: UPS installation

5. Slide the unit on the UPS shelf, until the tension knob and UPS shelf screw holes are aligned.
6. Secure the unit on the UPS shelf by tightening the two (2) tension knobs, two (2) lock washers and two (2) washers diagonally, under the transport cart (Figure 37).

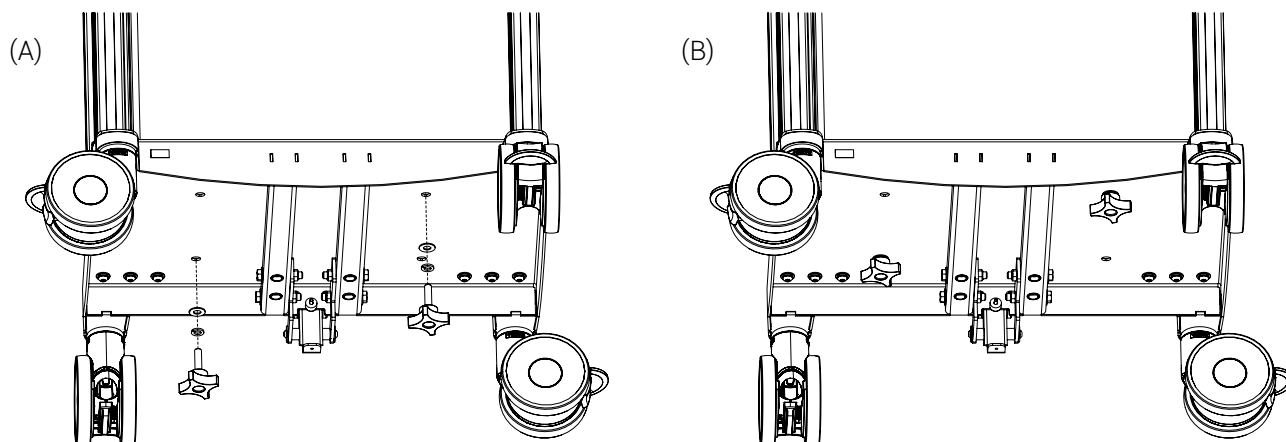


Figure 37: UPS installed (bottom of cart illustrated)

The installation of the UPS is completed.

9. Adjust Your Configuration

9.1. Adjust the Height of the Horizontal Rails

If required, the height of the horizontal rails can be adjusted to conform to the specific positioning needs of the equipment. Before adding any equipment, refer to the safety measures and technical specifications for precision on the Safe Working Load (SWL) of each rail.

1. Ensure to have applied all four (4) brakes on the transport cart.
2. Loosen the four (4) screws of the horizontal rail by turning them a quarter of a turn counterclockwise, using an Allen key 3/16 in. (Figure 38).

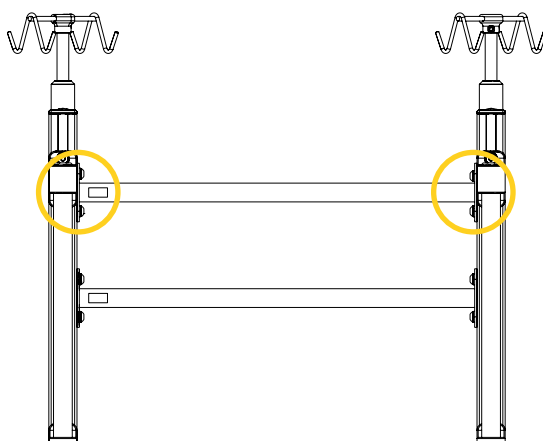


Figure 38: Horizontal rail screws

3. Glide the horizontal rail up or down the vertical rail to adjust its height (Figure 39).

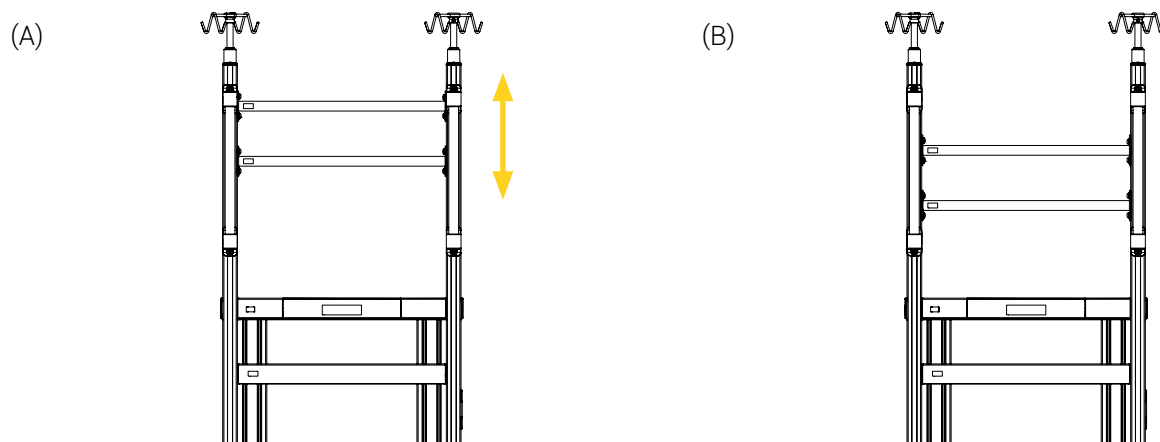


Figure 39: Height adjustment of the horizontal rails

4. Tighten the four (4) screws of the horizontal rail by turning them a quarter of a turn clockwise, using an Allen key 3/16 in.
5. If required, repeat steps 1 to 4 to adjust the height of the second horizontal rail.

The height adjustment of the horizontal rails is completed.

9.2. Adjust the Height of the UPS Protector/Shelf

If required, the height of the UPS protector/shelf can be adjusted to conform to the specific positioning needs of the equipment. Before adding any equipment, refer to the safety measures and technical specifications for precision on the Safe Working Load (SWL) of the UPS protector/shelf.

1. Ensure to have applied all four (4) brakes on the transport cart.
2. Loosen the twelve (12) screws of the UPS protector/shelf (three (3) screws on each vertical rail) by turning them a quarter of a turn counterclockwise, using an Allen key 3/16 in. (Figure 40).

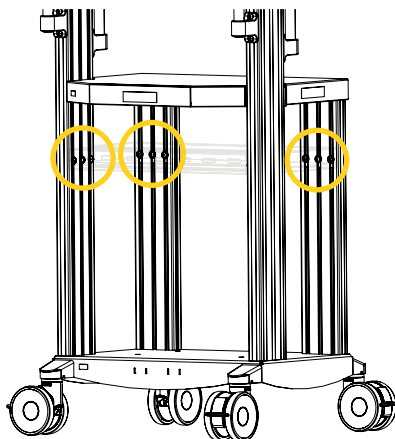


Figure 40: UPS protector/shelf screws (9 of 12 screws illustrated)

3. Glide the UPS protector/shelf up or down the vertical rail to adjust its height (Figure 41).

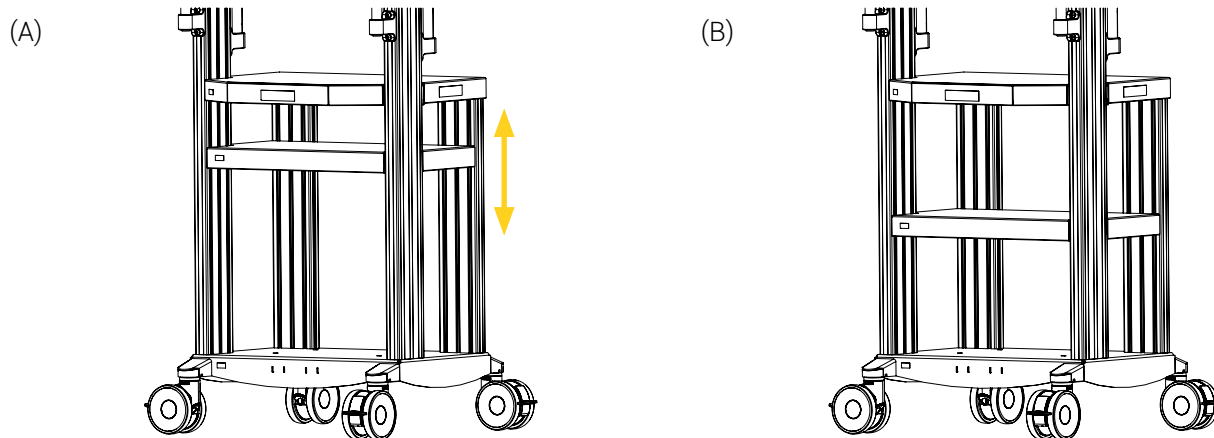


Figure 41: Height adjustment of the UPS protector/shelf

4. Tighten the twelve (12) screws of the UPS protector/shelf by turning them a quarter of a turn clockwise, using an Allen key 3/16 in.

The height adjustment of the UPS protector/shelf is completed.

10. Maintenance

Daily safety checks (refer to the THS Neonatal Cart) Operating Guide) and a condition-based maintenance plan (section 10.2) are required and should be established for all Technimount devices. Factors such as weather, environment, geographical location and individual usage will necessitate different needs. For the maintenance of the THS Neonatal Cart, follow the guidelines listed in the user manual, operating guide and in accordance with your service's current maintenance practices and protocols.

NOTE : Always keep records of your all maintenance activities and immediately remove defective or expired products from your inventory.

Please contact Technical Support at techsupport@technimount.com for replacement parts or repair related issues.



WARNING – General Warning

- **Do not perform maintenance** on Technimount products before receiving proper training.
- Perform maintenance operations as described in this user manual. Failing to follow the recommended maintenance plan or its guidelines could cause premature damage to the product.
- Use only Technimount parts, maintenance procedures, cleaning solutions and lubricants, as described in this user manual. Using unapproved modified parts or procedures for the installation, operation, or maintenance of the Technimount product may cause the system to be unstable and could cause injury to the patients or clinical staff and void the product warranty.
- Replace damaged or worn-out parts if past their expected service life or when damaged (refer to the Technical Specifications in Chapter 3 of this user manual). Recycle damaged parts or dispose according to the environmental laws that apply to your jurisdiction and consult the Safety Data Sheets (SDS).



WARNING – Part Breakage

Do not use powered tools to screw the hardware during installation, as there is a potential risk of damage to the threads. All the provided hardware has been previously prepped with thread locking adhesive and is ready to be used as is.



CAUTION – Safe Handling and Operation

- **Do not steam clean** or use ultrasonic cleaners on the system or any of its components.
- **Do not immerse** the metal parts/components in water.
- To spot clean, the maximum water temperature should not exceed 180° F/82° C. The maximum water pressure should not exceed 1500 psi/103.5 BAR. If using a pressure washer to clean the system, the pressure nozzle must be kept a minimum of 24 in. (61 cm) from the unit.
- Always rinse and dry the systems properly after using cleaning products. Certain types of cleaners may leave a corrosive residue on the surface of the product and could cause the premature corrosion of critical components. Refer to the product Safety Data Sheets (SDS) for chemical information or handling, storage and emergency measures in case of accident.

**CAUTION – Corrosion**

- Some cleaning products are corrosive in nature and may cause damage to the product if used improperly. When cleaning, always use appropriate Personal Protection Equipment (PPE) based on established protocols (e.g., gloves, eyewear, etc.).
- Dispose of corrosive wastes according to the environmental laws that apply to your jurisdiction and consult the Safety Data Sheets (SDS).

**CAUTION – Follow Instructions for Use**

Always read and abide by all the safety guidelines identified, as well as follow instructions provided by the manufacturer of the cleaning product.

10.1. Required Tools

- Clean dry cloths
- Soft brush
- Power washer
- Sodium Thiosulfate solution
- Silicone based lubricant

10.2. Condition-Based Maintenance Plan

Condition-based maintenance is carried out by the maintenance supervisor when the safety checks have revealed underlining issues that need immediate attention and/or to prolong the longevity of the system in optimal conditions. The maintenance supervisor should perform condition-based maintenance minimally every three (3) months, or when required. In case of a non-conformity, stop using the product and contact Technical Support at technicalsupport@technimount.com immediately for a remedial action plan.

CONDITION-BASED MAINTENANCE		DONE	
TASKS		YES	NO
Safety Checks		<input type="checkbox"/>	<input type="checkbox"/>
Perform the safety checks to get an overview of the system's current condition, referring to the THS Neonatal Cart Operating Guide.			
Clean the THS Neonatal Cart		<input type="checkbox"/>	<input type="checkbox"/>
<ol style="list-style-type: none"> If needed, remove the excess dirt on the transport cart using a clean cloth. Remove the contaminants using a power washer. Clean using a solution of 0.13 oz/3.70 ml Sodium Thiosulfate in 1 pt./0.5 L in lukewarm water and a clean cloth. If needed, spot clean stains by applying the solution directly on the stain and let sit on the surface. <div> <p>NOTE : Avoid over saturation and ensure that the product does not sit on the surface of the transport cart longer than recommended by the cleaner's manufacturer.</p> </div> Thoroughly rinse the solution with a clean cloth dampened with lukewarm water, then towel dry all the components before returning to service. 			
Inspect the Hardware		<input type="checkbox"/>	<input type="checkbox"/>
<ol style="list-style-type: none"> Make sure all the screws are accounted for and that they are leveled with the surface in which they are screwed. Make sure there are no loose screws. 			

Condition-Based Maintenance completed on (dd/mm/yyyy), by _____

Comments and observations:

[illegible]

11. Spare Parts

Technimount reserves the right to change part numbers and products without notice. Please contact Customer Service at customerservice@technimount.com to ensure product options and availability, or Technical Support at techsupport@technimount.com for replacement parts or repair related issues.

PART/KIT NUMBER	PART/KIT DESCRIPTION
HTC-10-DRG	Fold-up hitch
SUP-10-UPS	Ametek® Powervar Uninterruptible Power Supply (UPS) on-off switch protective panel, model 50220-72R
HTC-11-DRG	THS™ coupling device
OXY-10-DCF	Type D-M15 and Type E-M24 mounting bracket for 2 gas cylinders
870-00-UN	Belt for Type D-M15 and Type E-M24 gas cylinder mounting bracket
3000-00-PS-407	Medical grade power bar with surge protection (4 outlets)
SUP-10-ARM	Support plate for Draeger mounting system with SLIDE adapter
SUP-10-SUC	Support plate for Serres® suction canister
HDL-10-VER	330 mm (13 in.) handle
3002-00-5947B5	5-in. Dual wheel swivel casters with braking system
9012-10-UPS	UPS cable management hook
845-00-IVE-22	IV pole
845-10-IVE-I4	Hooks for the IV pole (4 hooks per pole)
9004-00-UN	Sliding T nut (qty of 10)
3003-00-BL51	Blue extruded border, 51 in. L



TECHNIMOUNT MEDICAL®

At Technimount Medical Inc., we understand that healthcare professionals need equipment that make their everyday practice easier. We design and develop quality solutions which are flexible and easy to use, allowing them to focus on what matters most - patient care.

Technimount Medical, an ISO 13485 certified company, creates distinctive products that respond to the ever-evolving healthcare practices. Our Technimount Healthcare System™ (THS™) and Healthcare Essentials product lines enable caregivers to move efficiently and safely all the medical devices needed to successfully treat their patients, wherever they are inside the hospital or remotely via telemedicine systems.

TECHNIMOUNT MEDICAL INC.

3770 Jean Marchand Street, Suite 100-B
Quebec (Quebec) G2C 1Y6
Canada
T + 1 581 700-6583
TF + 1 888 521-0871 (North America)

technimount.com

