



# HOVERMATT®

## PROS™ Air Sling

Patient Repositioning Off-Loading System

## User Manual



Visit [www.HoverMatt.com](http://www.HoverMatt.com) for other languages

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# HOVERMATT<sup>®</sup> PROS<sup>™</sup> Air Sling User Manual

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## Symbol Reference



CE MARKING OF CONFORMITY



LATEX FREE



UK MARKING OF CONFORMITY



LOOP STYLE HANGER BAR



AUTHORIZED REPRESENTATIVE



LOT NUMBER



UK RESPONSIBLE PERSON



MANUFACTURER



SWITZERLAND AUTHORIZED REPRESENTATIVE



DATE OF MANUFACTURE



CAUTION / WARNING



MEDICAL DEVICE



ATTACH CONNECTING STRAP



MODEL NUMBER



DISPOSAL



SINGLE PATIENT - MULTIPLE USE



FOOT END



DO NOT LAUNDRY



IMPORTER



UNIQUE DEVICE IDENTIFIER



OPERATING INSTRUCTIONS



PATIENT WEIGHT LIMIT

# HOVERMATT® PROS™ Air Sling User Manual

## Intended Use and Precautions

### INTENDED USE

The HoverMatt® PROS™ (Patient Repositioning Off-Loading System) Air Sling, is used to assist caregivers with patient positioning (including boosting and turning), vertical lifts, lateral transfers, and proning utilizing air and/or ceiling or mobile lifts. By providing pressure relief of bony prominences to aide with Q2, reducing shear and friction when repositioning, and enhancing microclimate management, the system provides a solution to safely turn and reposition patients while reducing caregiver strain.

The HoverTech Air Supply inflates the PROS Air Sling to cushion and cradle the patient, while air simultaneously escapes from the holes on the underside, reducing the force needed to move the patient by 80-90%.

### INDICATIONS

- Patients unable to assist in their own repositioning (including turning and boosting) and lateral transfers.
- Patients that need Q2 turning for off-loading pressure.
- Patients unable to transfer to a chair.
- Patients that need to be placed in prone position.
- Patients whose weight or girth poses a potential health risk for the caregivers responsible for repositioning or transferring said patients

### CONTRAINDICATIONS

- Do not use with patients over the weight limit of 600lbs to lift or 1200lbs to air assist.
- Do not use with patients who are experiencing thoracic, cervical or lumbar fractures that are deemed unstable unless a clinical decision has been made by your facility.

### INTENDED CARE SETTINGS

- Hospitals, long term or extended care facilities.

### PRECAUTIONS – PROS AIR SLING

- Caregivers must verify that all brakes have been engaged prior to transfer.
- Use a minimum of two caregivers during lateral patient transfers.
- For in-bed positioning tasks, more than one caregiver may be needed. Side rails must be raised with one caregiver.
- Never leave patient unattended on an inflated device.
- Use this product only for its intended purpose as described in this manual.
- Only use attachments and/or accessories that are authorized by HoverTech.
- When transferring or positioning on a low air loss mattress, set the bed mattress air flow to the highest level for a firm surface.



If there is any indication of damage, remove the PROS Air Sling from service and discard

### PRECAUTIONS – FOR USE AS A SLING

- For proning, see HoverTech's training video @ [www.HoverMatt.com](http://www.HoverMatt.com).
- The PROS Air Sling should only be used by trained personnel.
- A clinical assessment should be carried out before lifting patients with the PROS Air Sling.
- Make sure the PROS Air Sling is not attached to any object other than the loop style hanger bar.
- When connecting to loop style hanger bar, ensure strap loop colors match on the patient's left and right side.
- Once the sling support straps are fully extended, make sure they are properly connected to the hanger bar before the patient is lifted.
- For seated lifts, make sure the patient is sitting securely in the PROS Air Sling before transferring or lifting.
- Never lift a patient higher than is necessary to complete the lift/transfer.
- Never leave the patient unattended while using the PROS Air Sling to lift the patient.
- Use the PROS Air Sling according to both the lift and PROS Air Sling instructions.
- If the weight limit differs among the patient lift, hanger bar, and PROS Air Sling, then the lowest weight limit applies.



Side rails must be raised with one caregiver.



For use with loop style hanger bar only.

### PRECAUTIONS – AIR SUPPLY

- Not for use in the presence of flammable anesthetics or in a hyperbaric chamber or oxygen tent.
- Route the power cord in a manner to ensure freedom from hazard.
- Avoid blocking the air intakes of the air supply.
- When using the PROS Air Sling in the MRI environment, a 25 ft. specialty MRI hose is required (available for purchase).



Avoid electric shock. Do not open air supply.



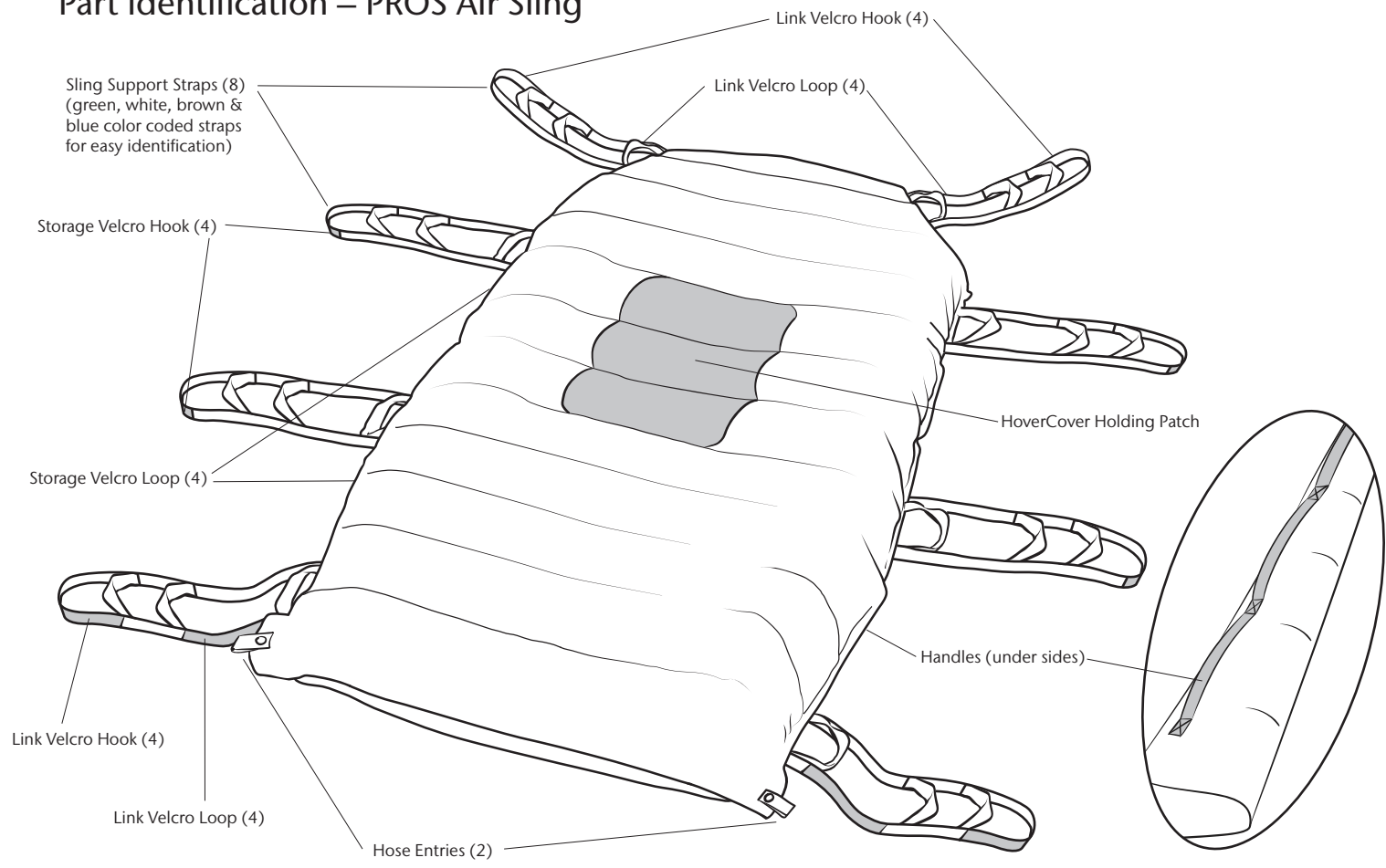
Reference product specific user manuals for operating instructions.



In the OR – To prevent patient from slipping, always deflate the PROS Air Sling and secure the patient and PROS Air Sling to the OR table prior to moving the table into an angled position.

# HOVERMATT® PROS™ Air Sling User Manual

## Part Identification – PROS Air Sling



## Product Specifications/Required Accessories

### PROS Air Sling

Material:	Nylon Twill
Construction:	Sewn
Width:	48.5" (123 cm)
Length:	78" (198 cm)

Model #: PROS-HMSL-KIT (Air Sling + HoverCover + pair of wedges) 3 per case\*  
Model #: PROS-HMSL-CS (Air Sling + HoverCover) 5 per case



LIMIT 600 LBS/ 273 KG Lift  
1200 LBS/ 544 KG Air Assist

\*Wedge Pair Includes: 1 Wedge with Tail & 1 without Tail, Compressed

### REQUIRED ACCESSORY FOR USE AS A TRANSFER MATTRESS:

Model #: HTAIR1200 (North American Version) – 120V~, 60Hz, 10A  
Model #: HTAIR2300 (European Version) – 230V~, 50 Hz, 6A  
Model #: HTAIR1000 (Japanese Version) – 100V~, 50/60 Hz, 12.5A  
Model #: HTAIR2356 (Korean Version) – 230V~, 50/60 Hz, 6A  
Model #: AIR200G (800 W) – 120V~, 60Hz, 10A  
Model #: AIR400G (1100 W) – 120V~, 60Hz, 10A

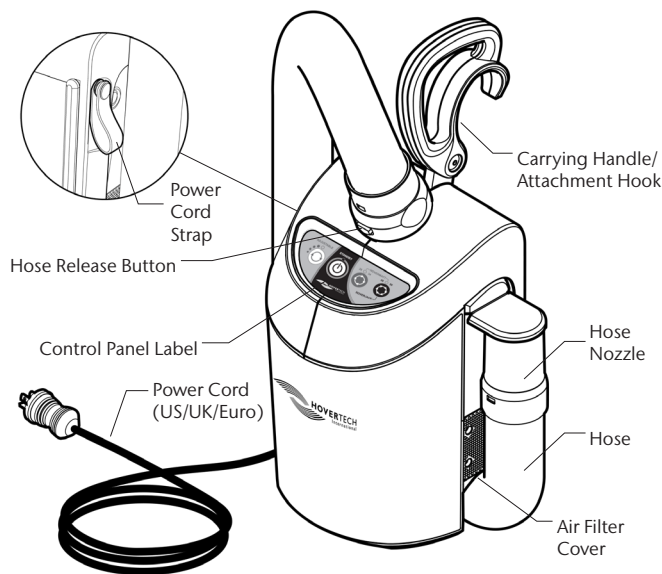
### REQUIRED ACCESSORY FOR USE AS A SLING:

Any patient lift with 2, 3, or 4-point loop style hanger bars intended for use with:

- Mobile hoists
- Hoist trolleys
- Stationary hoists fixed to the wall/walls, floor and/or ceiling
- Stationary free-standing hoists

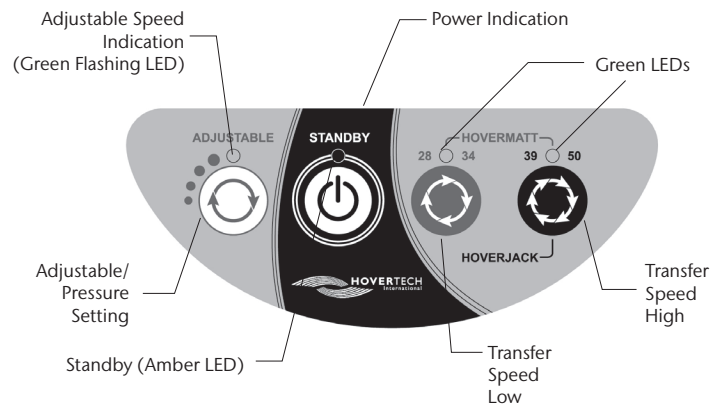
# HOVERMATT® PROS™ Air Sling User Manual

## Part Identification – HT-Air® Air Supply



**WARNING:** The HT-Air is not compatible with DC power supplies.  
The HT-Air is not for use with the HoverJack Battery Cart.

## HT-Air® Keypad Functions



**ADJUSTABLE:** For use with HoverTech air-assisted positioning devices. There are four different settings. Each press of the button increases the air pressure and rate of inflation. The Green Flashing LED will indicate the inflation speed by the number of flashes (i.e. two flashes equals the second inflation speed).

**All of the settings in the ADJUSTABLE range are substantially lower than the HoverMatt and HoverJack settings. The ADJUSTABLE function is not to be used for transferring.**

The ADJUSTABLE setting is a safety feature that can be used to ensure the patient is centered on HoverTech air-assisted devices and to gradually accustom a patient who is timid or in pain to both the noise and functionality of the inflated devices.



**STANDBY:** Used to stop inflation/air flow (Amber LED indicates STANDBY mode).



**HOVERMATT 28/34:** For use with 28" & 34" HoverMatts and HoverSlings.



**HOVERMATT 39/50 & HOVERJACK:** For use with 39" & 50" HoverMatts and HoverSlings and 32" & 39" HoverJacks.

## Air200G/Air400G Air Supplies

If using HoverTech's Air200G or Air400G Air Supplies, press the grey button on the top of the canister to initiate air flow. Press the button again to stop air flow.

# HOVERMATT® PROS™ Air Sling User Manual

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## Instructions for Use – PROS Air Sling

### PLACING PRODUCT UNDER PATIENT - LOG ROLLING TECHNIQUE

1. Open the product and place length-wise next to the patient.
2. Unfold the PROS Air Sling furthest from the patient to the side of the bed.
3. Tuck the other side under the patient as far as possible.
4. Roll the patient onto their side toward the unfolded sling. Unroll the rest of the sling from under the patient to cover the bed.
5. Place the patient back in a supine position. Straighten sling to remove any wrinkles.

### ATTACHING TO BEDFRAME

1. Loosely attach Velcro hook to Velcro loop around solid points on the bedframe (or to the headboard) to reduce sling migration.
2. Repeat the process on the other three corners of the sling.
3. Before boosting, turning, proning, lifts and/or transfers, disconnect sling straps from bed frame.

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## For use as an Air-Assisted Device

1. Patient should preferably be in a supine position.
2. Place PROS Air Sling underneath patient using a log rolling technique.
3. Plug the HoverTech Air Supply power cord into an electrical outlet.
4. Insert the hose nozzle into either of two hose entries at foot end of PROS Air Sling and snap into place.

### BOOST

(To ease boosting efforts, place bed in Trendelenburg prior to boosting.)

1. If using one caregiver, raise the siderails prior to matt inflation.
2. Press the variable speed button to ensure the patient is centered.
3. When confirmed patient is centered, press the 39" HoverMatt setting on the air supply.  
NOTE: If using the Air200G or Air400G, press the gray button to fully inflate the PROS Air Sling.
4. When matt is fully inflated, use the handles under the edge of the matt to boost patient.
5. Turn off air supply and employ the bed/stretcher rails.
6. Attach Velcro connecting straps to keep matt in place and reduce migration

### REPOSITIONING/WEDGE PLACEMENT

1. If using one caregiver, raise the siderails prior to matt inflation.
  2. Press the variable speed button to ensure the patient is centered.
  3. When confirmed patient is centered, press the 39" HoverMatt setting on the air supply.  
NOTE: If using the Air200G or Air400G, press the gray button to fully inflate the PROS Air Sling.
  4. When matt is fully inflated, use the handles under the edge of the matt to center the patient on the bed.
  5. Turn off air supply and employ the bed/stretcher rails.
  6. Attach Velcro connecting straps to keep matt in place and reduce migration.
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- a. To insert wedges, inflate PROS Air Sling and hold the edge of the matt. Place wedges between the bed and device.
  - b. Insert the tail of the wedge just under the patient's thighs. Ensure the back part of the wedge is elevated until the position is set, then lower the wedge down to secure in place with the HoldFast™ foam.
  - c. Pull the tail through to the other side of the patient to anchor the wedge.
  - d. Place the standard wedge to support the patient's back about 1 hand's width away from the tailed wedge. Ensure the back part of the wedge is elevated until the position is set, then lower the wedge down to secure in place with the HoldFast foam.
  - e. After wedges are placed, make sure the sacrum is not touching the bed (floating). If it is, reposition wedges to ensure sacral off-loading.
  - f. Deflate the matt and reconfirm the placement of the wedges.

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## REPOSITIONING/WEDGE PLACEMENT (CONTINUED)

### 2. Hygiene Turn, HoverCover™ Replacement, Wedge Placement (air turn)

- a. With a caregiver on each side of the patient, fully inflate PROS Air Sling. Slide the patient in the opposite direction of the turn, slide them as close to the edge of the bed as possible to ensure that when the patient is repositioned, they will be centered on the bed.
- b. To turn the patient on their side, the caregiver furthest from the patient will gently push down on the PROS Air Sling at the patient's shoulder and hip, while the turning caregiver gently pulls up on the handles. Once the patient is turned on their side, the caregiver receiving will stay with the patient while the turning caregiver presses the STANDBY button to stop air flow.
- c. If replacing the HoverCover or performing a hygiene turn, the opposite caregiver will brace the patient on their side while the turning caregiver will release the handles and hold onto the patient's hip and shoulder to stabilize the patient.
- d. While the patient is turned, hygiene can be performed and HoverCover removed and replaced.
- e. Repeat on the other side before placing wedges.
- f. Insert the tail of the wedge just under the patient's thighs. Ensure the back part of the wedge is elevated until the position is set, then lower the wedge down to secure in place with the HoldFast™ foam.
- g. Place the standard wedge to support the patient's back about 1 hand width away from the tailed wedge. Ensure the back part of the wedge is elevated until the position is set, then lower the wedge down to secure in place with the HoldFast foam.
- h. Return patient to supine position.

- i. Pull the tail through to the other side of the patient to anchor the wedge.
- j. After wedges are placed, make sure the sacrum is not touching the bed (floating). If it is, reposition wedges to ensure sacral off-loading.

### 3. Wedge Placement with a Ceiling or Portable Lift (Single Caregiver)

- a. Raise the side rails on the opposite side of the bed the patient will be turned toward. Ensure the patient is centered and slide the patient in the opposite direction of the turn using either the sling to lift or a manual technique. This will allow the patient to be centered on the bed when repositioned on the wedges.
- b. Attach the shoulder and hip loop straps of the sling to the hanger bar which should be parallel to the bed. Raise the lift to initiate the turn.
- c. Insert the tail of the wedge just under the patient's thighs. Ensure the back part of the wedge is elevated until the position is set, then lower the wedge down to secure in place with the HoldFast foam.
- d. Place the standard wedge to support the patient's back about 1 hand's width away from the tailed wedge. Ensure the back part of the wedge is elevated until the position is set, then lower the wedge down to secure in place with the HoldFast foam.
- e. After the wedges are placed, lower the patient onto the wedges, ensure straps are not underneath the PROS Air Sling.
- f. Pull the tail through to the patient's other side until taught. Check wedge placement by placing your hand between the wedges, confirming the sacrum is not touching the bed. If it is, reposition wedges to ensure sacral off-loading.

## LATERAL TRANSFER

1. Ensure that transfer surfaces are as close as possible and lock all wheels.
2. If possible, transfer from a higher surface to a lower surface.
3. Press the variable speed button to ensure the patient is centered.
4. When confirmed patient is centered, press the 39" HoverMatt setting on the air supply.

NOTE: If using the Air200G or Air400G, press the gray button to fully inflate the PROS Air Sling.

5. Push PROS Air Sling at an angle, either headfirst or feetfirst. Once half-way across, opposite caregiver should grasp closest handles and pull to desired location.
6. Ensure patient is centered on receiving equipment prior to deflation.
7. Turn off air supply and employ the bed/stretchers rails.
8. Remove Velcro sling straps from pockets and loosely attach to solid points on bed frame if transferring back to bed.

NOTE: For use with patients of size, two air supplies may be used for inflation.

## PRONE

1. Ensure brakes are locked. Multiple caregivers will be needed for this task.
2. Be sure patient is centered on the product prior to movement.
3. Inflate the PROS Air Sling. Slide patient over to one side of the bed to ensure room for the turn.
4. Place another HoverCover, positioning devices or pillows, and PROS Air Sling on top of the patient. Fold mat down to shoulder level keep face exposed.

5. Roll the two PROS Air Slings together toward the patient to tightly cocoon the patient.
6. With a firm grasp on the rolled matts, turn the patient onto their side. Caregivers on opposite sides should exchange hand positions (hands on top should switch with hands on bottom).
7. Continue with turn after hand positions are switched. Unroll the matts and remove the top PROS Air Sling and HoverCover.
8. Position patient per facility protocol.



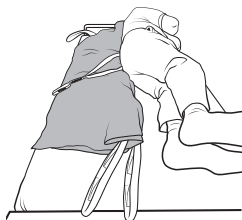
# HOVERMATT® PROS™ Air Sling User Manual

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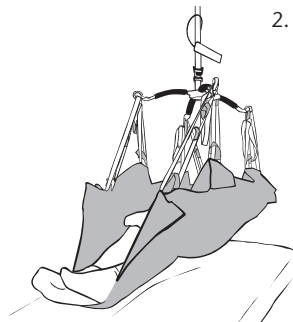
## PROS Air Sling Instructions for Use as a Sling

### INSTRUCTIONS FOR USE – PATIENT IN BED

Note: PROS Air Sling has eight (8) sling support straps that need to be attached.



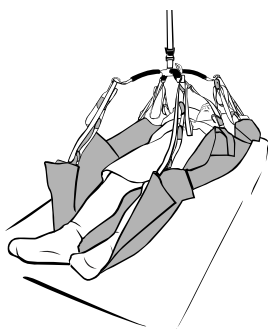
1. Place the PROS Air Sling underneath patient using log rolling technique.



2. Attach all straps to the hanger bar for the proper safety and comfort of the patient. [Color coded strap loops provide easy identification to match strap placement on the left and right side of the patient.] Lift patient according to lift manufacturer's instructions.

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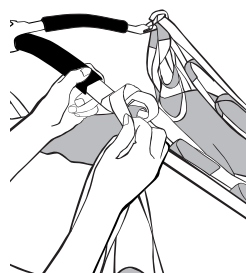
### INSTRUCTIONS FOR USE – BACK TO BED



1. Position patient above center of bed. Lower patient on the bed.



3. Reattach the sling straps to Velcro to avoid dangling straps and to reduce boosting (see chart for attaching to bedframe).



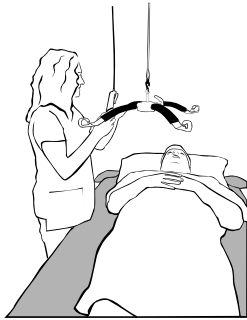
2. Detach strap loops from hanger bar.



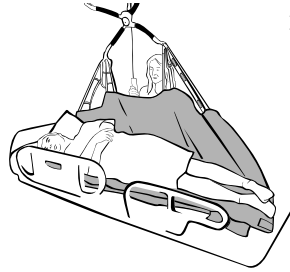
# HOVERMATT<sup>®</sup> PROS<sup>™</sup> Air Sling User Manual

## PROS Air Sling Instructions for Use as a Sling

### INSTRUCTIONS FOR USE – LATERAL TURN/PRONE

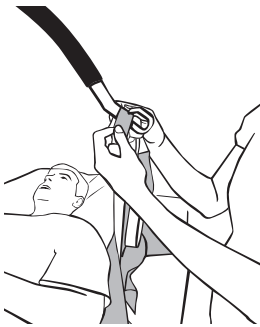


1. With patient centered on the PROS Air Sling, lower hanger bar to comfortable working height.



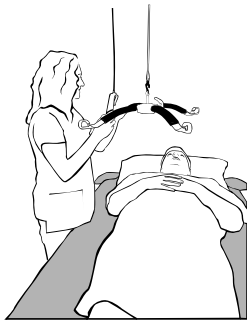
3. As lift is raised, patient will turn towards the opposite side of the bed the straps are attached to. Use wedges to keep patient in position if desired (see above for wedge placement). After the task is completed, lower hanger bar and remove sling straps.

\* To prone, continue the turn and adjust patient/device as necessary after the task is complete.



2. Raise bed rails and attach (see chart for guidance) straps on opposite side of patient turn to loops on same side of hanger bar starting at foot end.

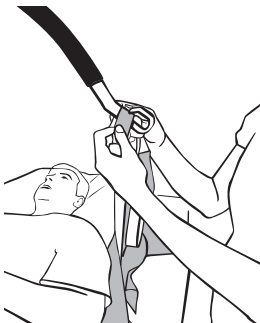
### INSTRUCTIONS FOR USE – HYGIENE TURN



1. With patient centered on the the PROS Air Sling, lower hanger bar to comfortable working height.



3. As lift is raised, patient will begin to turn to the side opposite the connected strap. Leave sling in place to perform task. Once task is completed, lower hanger bar and remove sling strap.

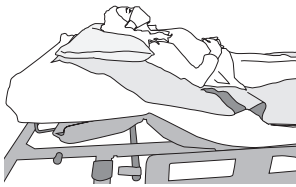


2. Raise bed rails and attach the sling strap that is closest to patient's shoulder to hanger bar..

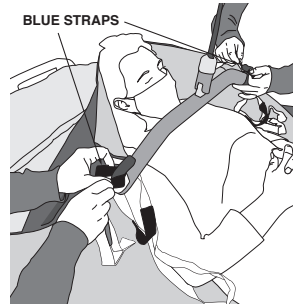
# HOVERMATT<sup>®</sup> PROS<sup>™</sup> Air Sling User Manual

## PROS Air Sling Instructions for Use as a Sling

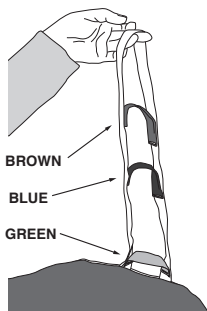
### INSTRUCTIONS FOR USE – SEATED TRANSFER FROM BED



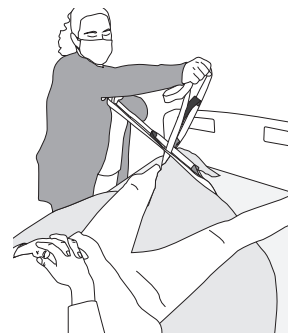
1. Position the PROS Air Sling under the patient using the log-rolling technique. Elevate the head of the bed to prepare for the seated transfer.



3. Attach the blue sling strap on each shoulder side. Skip the hip sling straps.



2. Attach the straps at the head of the PROS Air Sling to the hanger bar. For a fully upright seated position – use the green handle. For a reclined seated position – use the 1st sling strap (blue) to reduce hip flexion.

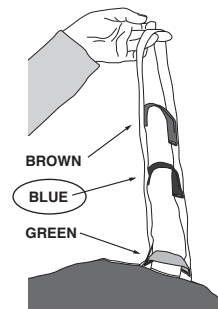


4. Fold PROS Air Sling between patient's legs and place feet on each side of the PROS Air Sling. Cross one foot-end sling strap through the other at the lowest loop closest to the device and attach to the hanger bar. Transfer patient.

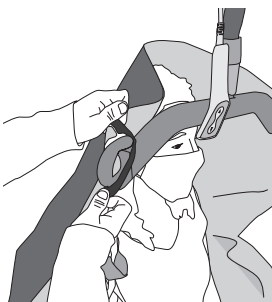
### INSTRUCTIONS FOR USE – SEATED TRANSFER FROM CHAIR



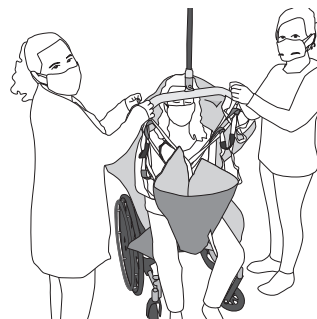
1. Ensure the PROS Air Sling is properly placed under the patient prior to attaching strap.



3. Attach the blue sling strap on each shoulder side. Make sure to allow plenty of slack in the hanger bar to attach the foot-end straps without sliding the patient off the chair. Skip the hip sling straps.



2. Attach the straps at the head of the PROS Air Sling to the hanger bar. For a fully upright seated position – use the green handle. For a reclined seated position – use the 1st sling strap (blue) to reduce hip flexion.



4. Fold PROS Air Sling between patient's legs and place feet on each side of the PROS Air Sling. Cross one foot-end sling strap through the other at the lowest loop closest to the device and attach to the hanger bar. Transfer patient.

# HOVERMATT<sup>®</sup> PROS<sup>™</sup> Air Sling User Manual

## PROS Air Sling Instructions for Use as a Sling

STRAP USAGE				
TECHNIQUE	Supine Lift	Turn	Hygiene/Perineal Care	Prone (Use supine lift technique to move patient closer to side of bed. Then follow strap use below on one side to turn patient.)
1st Set (Head)	Brown	You can use - Blue, Brown, or SKIP	SKIP	You can use - Blue, Brown, or SKIP
2nd Set (Shoulder)	Blue	Blue	Blue	Blue
3rd Set (Hip)	Blue	Blue	SKIP	Blue
4th Set (Foot)	Brown	You can use - Brown, White, or SKIP	SKIP	You can use - Brown, White, or SKIP

*\*This is just a guide to using the PROS<sup>™</sup> Air Sling. Please use clinical judgement for patient-specific needs.*

## Cleaning and Preventive Maintenance

### PROS AIR SLING CLEANING

If soiled, the PROS Air Sling may be wiped down with disinfectant wipes or a cleaning solution used by your hospital for medical equipment disinfection. A 10:1 bleach solution (10 parts water: one part bleach) may also be used.

NOTE: Cleaning with bleach solution may discolor fabric.

To help keep the PROS Air Sling clean, HoverTech recommends the use of the HoverCover<sup>™</sup> Disposable Absorbent Cover. Whatever the patient is lying on to keep the hospital bed clean may also be placed on top of the PROS Air Sling.

The Single-Patient Use PROS Air Sling is not intended to be laundered.

### AIR SUPPLY CLEANING AND MAINTENANCE

See air supply manual for reference.

NOTE: CHECK YOUR LOCAL/STATE/FEDERAL/INTERNATIONAL GUIDELINES BEFORE DISPOSAL.

### PREVENTIVE MAINTENANCE

Prior to use, a visual inspection should be performed on the PROS Air Sling to ensure that there is no visible damage that would render the PROS Air Sling unusable. The PROS Air Sling should have all of its sling straps and handles (reference the manual for all appropriate parts). If any damage is found that would cause the system not to function as intended, the PROS Air Sling should be removed from use and discarded.

### INFECTION CONTROL

The Single-Patient Use PROS Air Sling eliminates the possibility of cross-contamination and the need for laundering.

If the PROS Air Sling is used for an isolation patient, the hospital should employ the same protocols/procedures it utilizes for the bed mattress and/or for linens in that patient room.

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## Returns and Repairs

All products being returned to HoverTech must have a Returned Goods Authorization (RGA) number issued by the company. Please call (800) 471-2776 and ask for a member of the RGA Team who will issue you an RGA number. Any product returned without an RGA number will cause a delay in the repair time.

Returned products should be sent to:

HoverTech  
Attn: RGA # \_\_\_\_\_  
4482 Innovation Way  
Allentown, PA 18109

For European companies, send returned products to:



Attn: RGA # \_\_\_\_\_  
Kista Science Tower  
SE-164 51 Kista, Sweden

For product warranties, visit our website:

<https://hovermatt.com/standard-product-warranty/>



### HoverTech

4482 Innovation Way  
Allentown, PA 18109

[www.HoverMatt.com](http://www.HoverMatt.com)  
[Info@HoverMatt.com](mailto:Info@HoverMatt.com)

*These products comply with the standards applicable for Class 1 products in the Medical Device Regulation (EU) 2017/745 on medical devices.*



CEpartner4U, ESDOORNLAAN 13,  
3951DB MAARN, THE NETHERLANDS.

[www.cepartner4u.com](http://www.cepartner4u.com)



### Etac Ltd.

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Hartlebury, Kidderminster,  
Worcestershire, DY10 4JB  
+44 121 561 2222

[www.etac.com/uk](http://www.etac.com/uk)



### TapMed Swiss AG

Gumprechtstrasse 33  
CH-6376 Emmetten  
CHRN-AR-20003070

[www.tapmed-swiss.ch](http://www.tapmed-swiss.ch)

In case an adverse event in relation to the device, incidents should be reported to our authorized representative. Our authorized representative will forward information to the manufacturer.



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