Icon™ Back System

Innovation
Versatility
Comfort
Simplicity
Easy to Use
Features and Models

• Available in 4 models
  – Icon Low Back
  – Icon Mid Back
  – Icon Tall Back
  – Icon Deep Back

• New design
  – Hardware
  – Shells
  – Cushion
  – Cover
Icon™ Low Back

- Provides lower trunk positioning
  - Pelvis
  - Thoraco-lumbar spine
- Ideal for more active users
- Enhanced rollover cushion
  - Protects user from shell edge
  - Cushion rolls over
  - Cover rolls over
  - Neoprene pad sewn to cover
- Weight 3.4 lbs for 18” wide (1.5 kg for 45 cm)
- Max user weight 300lbs (136 kg)
Icon™ Mid Back

• Provides lower trunk positioning
  – Pelvis
  – Mid-thoracic spine
• Appropriate for a variety of users with fair trunk control
• Enhanced Rollover Cushion
  – Protects user from shell edge
  – Cushion rolls over
  – Cover rolls over
  – Neoprene pad sewn to cover
• Compatible with Fixed and PALs Laterals
• Available in Pediatric and Bariatric sizes
• Max user weight
  – 300 lbs (136 kg) for standard size
  – 400 lbs (181 kg) for bariatric size
• Weight 4.3 lbs for 18” (1.9 kg for 45 cm)
Icon™ Tall Back

- Provides upper and lower trunk positioning
  - Pelvis
  - Spine
  - Scapula
- For users that need moderate support
- Standard Roll Over
  - Cushion rolls over
  - Cover rolls over
- Compatible with Fixed and PALs Laterals
- Head support can be mounted by drilling into shell
- Compatible for use with tilt/recline systems
- Available in pediatric sizes
- Max user weight 300 lbs (136 kg)
- Weight 5.5 lbs for 18” (2.5 kg for 45 cm)
Icon™ Deep Back

- Provides upper and lower trunk support
  - Pelvis
  - Spine
  - Scapula
  - Lateral trunk support
- For users that need maximum support
- Provides fixed lateral support at the trunk
- Standard roll over
  - Cushion rolls over
  - Cover rolls over
- Not compatible with Fixed or PALs Laterals
- Head supports may be mounted by drilling into shell
- Compatible for use with tilt/recline systems
- Max user weight 300 lbs (136 kg)
- Weight 6.4 lbs for 18” (2.9 kg for 45 cm)
Hardware Components

- Cane Bracket
- Hex Key
- Handle
- Shell Bracket
- Slide Bracket
Hardware Features

- Two points of attachment on the canes
  - Quick and easy to install
  - All hardware is pre-assembled, just install cane brackets
- Symmetrical design for all parts
  - No right or left parts
  - Parts are interchangeable
    - More set up configurations
    - No need to order extended length hardware
    - Easier to order replacement parts
- All metal hardware
  - Durable and strong
  - Aluminum die cast
  - Custom design fasteners for shell brackets
  - One size screw requiring only one tool for installation
Hardware Features

- Positive Locking Design
  - Will not slip once installed and adjusted
  - Adjustor plate
    - Teeth to hold recline adjustment
    - Inset into cane bracket prevents rotation

- Unique User Friendly Locking System
  - Safety latches open outward
  - Red color alerts consumer when latches are open
  - Locks automatically when back is inserted
Hardware Features

• Highly functional design improves ease of use for everyone
  – Allows easy one handed removal of back by users/care givers
    • Rigid wheelchairs
    • Folding wheelchairs
  – Adjustable with the user in the wheelchair
    • All screws are easily accessible from rear or side
    • Only one tool is needed
    • All screws are the same size (1/4” -20)
  – Time saving for clinical evaluations
    • Hardware is the same on all models and sizes
    • Allows for different models/height backs to be trialed during evaluation with no change in hardware and minimal adjustment
Safety Latches

• Lock securely when back is inserted
  – Locks automatically
  – Tightens more if back is forced upward while in locked position

• Unlocking
  – Opens outward to prevent unintentional activation
  – Ergonomic lever
  – Red to alert when latch is open
  – Remains open for removal of the back
Hardware Components

- **Cane bracket**
  - Fits 1” (25 mm) round canes
  - Shims available to fit 7/8 (22 mm) and ¾ in. (19 mm) canes
  - Will not slip

- **Holster**
  - Guides slider bar easily into place
  - Adjusts to ± 20 degrees of recline
  - Slides for depth adjustment of 1.5 in (4 cm)
  - Scale on top for angle adjustment
Hardware Components

- Adjustor plate
  - Positive locking design
  - Teeth allow recline adjustment in 2° increments
- Slide release
  - Ergonomic design
  - Magnetic catch allows lever to stay open for removal of back
  - Automatically locks shut when back is reinserted
Shims

- New design
  - Urethane material
  - Press in place
  - Will not slide on canes
    - Clean canes prior to installation
    - Alcohol pads included
- Sizes included with hardware
  - 1/8 in. (3 mm)
  - 1/4 in. (6 mm)
Other Features

Aluminum shell

- **Ergonomic Design**
  - Handle with kick out
  - Lateral positioning
    - Less in hip area to accommodate more body shapes
    - Improved in trunk area to provide more support
    - Deep Back redesigned with same principles for fixed laterals

- **Aesthetic Design**
  - Smooth contours
  - Pad printed Icon logo
Other Features

• New back cushion design
  – Adjustable air-foam cushion
  – Dual stiffness foam
    • Thicker and softer foam protects spine
    • Stiffer more firm foam provides positioning
  – Resized with features to protect the user
    • Roll over top
    • Larger to increase overlap around shell edges
    • Four channels prevent bunching of foam inside cover
  – Four channels to ensure cohesive fit with shell without bunching
Other Features

• Innovative cushion cover design
  – Spacer knit material
    • Improves air flow for temperature and moisture control
    • Does not pill as easily as standard mesh fabric
  – Reticulated foam
    • Improves air flow for temperature and moisture control
    • Assists with pressure distribution
Other Features

- Enhanced Roll Over Design
  - Featured on Icon Low Back and Icon Mid Back only
  - Provides additional protection for user
  - Neoprene fabric sewn to cover provides flexible protection
  - Cushion is attached to cover with hook and loop
    - Will not slide down inside cover
    - Functions as protective layer in the roll over
Other Features

– Machine washable cover and air dry

– Meets ISO 7176-16
  • International standard for resistance to ignition for upholstered wheelchair parts
  • No progressive smoldering or flaming (self extinguishes) when lit with a cigarette
Installation Instructions

• Quick and easy
• Hardware is pre-assembled
• Clean canes with alcohol pads if greasy
• Attach the 2 cane brackets
• Loosen slide bracket screws
• Insert back
• Tighten slide bracket and cane bracket screws
Installation Instructions
Hardware Adjustment

Depth and Angle Adjustment

• Loosen adjustment screws ¾ of a turn only
• Slide and/or rotate hardware to desired position
• Use reference marks on top of holster for incremental adjustments
• Tighten adjustment screws
• Loosen slide bracket screws to allow centering of hardware
• Tighten slide bracket screws
Hardware Adjustment

Icon™ Back System
Hardware Adjustment

Horizontal Shell Adjustment

- Loosen the 2 slide bracket screws on each side
- Move shell laterally to desired position
- Retighten the screws
Hardware Adjustment
Hardware Adjustment

Vertical Shell Adjustment

- Loosen 2 screws on each side of the shell bracket
- Slide shell vertically to desired position
- Retighten screws
Hardware Adjustment
Troubleshooting

If the back system is binding or “sticky” with removal

• Allow slide brackets to “self center”
  – Loosen slide bracket screws on both sides
  – Allow brackets to move so that there is room in holsters
  – Retighten slide bracket screws
  – This should be done after any hardware adjustments
Troubleshooting

• Check cane brackets
  – Make sure they are the same height
  – Flag portions should be parallel
• Check angle adjustment
  – Look at holsters to make sure the angle is same on each side
  – To correct
    • loosen top adjustment screw ¾ turn
    • press backrest backwards
    • tighten screw while holding backrest backward
    • repeat slide bracket self centering
Installation Configurations

• Basic Installation
  – The Icon back will ship with slide brackets pre-assembled for this configuration
  – Cane brackets face rearward
  – Slide bracket face forward
  – Seat depth adjustability will meet most average needs
  – Shell will move from 2.4” posterior of the canes to 0.9” posterior of the canes
Installation Configurations

• Extra Depth Installation
  – Increases range of seat depth adjustment an additional 1.5” from basic installation
  – Cane bracket facing rearward
  – Slide bracket facing rearward
  – Shell moves from 3.9” posterior of canes to 2.4” posterior of canes
Installation Configurations

- **Growth Installation**
  - Will take up seat depth for desired circumstances such as growth set up for pediatrics
  - Cane bracket facing forward
  - Slide bracket facing rearward
  - Shell will move from 0.3” anterior of the canes to 1.8” anterior of the canes
Installation Configurations

- Extra Growth Installation
  - Will take up seat depth for desired circumstances such as growth set up for pediatrics
  - Cane bracket faces forward
  - Slide bracket faces forward
  - Shell will move from 1.8” anterior of the canes to 3.3” anterior of the canes
Use of Secondary Supports

- PAL™ Swing Away or Fixed Laterals
  - Compatible with Icon Mid Back and Icon Tall Back Systems
  - Can be installed using existing slots on the shell
  - Shell can be drilled for alternate placement
Use of Secondary Supports

- The shell may be drilled to install other supports without voiding the warranty
  - Head Supports
  - Chest Harnesses
  - Chest Belts
  - Hip Pads
Supplemental Supports

- **PSIS Block (Posterior Superior Iliac Spine)**
  - Supports the pelvis at the level of the PSIS
  - Promotes neutral pelvis and spinal extension
  - May accommodate anterior pelvic tilt
- **Supplemental Lateral Supports**
  - Can be placed to provide extra lateral support or improve fit
  - May help accommodate scoliosis or other postural deformities
Supplemental Supports

- PSIS Block and Supplemental Lateral Support
  - Come standard with Icon Deep Back
  - Can be ordered separately for use with other model Icon Back Systems

- Cheat Sheets
  - Closed cell foam sheets
  - Peel and stick adhesive
  - Can be cut to custom shapes to be used for additional positioning or padding
Crash Tested

Icon Tall Back and Icon Deep Back have been dynamically tested and meet the requirements of ANSI/RESNA WC20/Vol 4 and conform with ISO 16840-4 for safe use of seating devices in motor vehicles when used with a wheelchair base that complies with ANSI/RESNA WC 19 and 7076-19.

WARNING

This seating system has been dynamically tested and meets requirements of ANSI WC20/Vol 4 and conforms to ISO 16840-4 for the safe use of seating devices for use in motor vehicles when used with a wheelchair base that complies with performance requirements of ANSI WC19 or ISO 7176-19.

A surrogate wheelchair base and Hybrid III Midsize Male ATD were used in the frontal impact test.

Any postural support devices and belts that have not been successfully tested in accordance with ANSI/RESNA WC18 or WC19 should not be relied upon as an occupant restraint in a vehicle.

Failure to use the appropriate equipment for restraint in a vehicle can result in serious injury or death.

For additional information regarding the use of seating systems in motor vehicles, refer to Safe Use in a Motor Vehicle provided with this system and at www.varilite.com.
Crash Tested

- Icon Low Back and Icon Mid Back do not meet the requirements of ANSI/RESNA WC20/Vol 4 or conform with ISO 16840-4 for safe use of seating devices in motor vehicles.
- For more information the Ride Safe brochure is available at www.varilite.com.
- It is generally safest for wheelchair users to transfer to a vehicle seat and use the vehicle seat belt system or child safety seat.
HCPCS Code Info

- Icon Low Back- **E2613** Positioning wheelchair back cushion, posterior width less than 22”, any height including any type of mounting hardware
- Icon Mid Back- **E2615** Positioning wheelchair back cushion, posterior-lateral, posterior width less than 22”, any height, including any type of mounting hardware
- Icon Mid Back Bariatric- **E2616** Positioning wheelchair back cushion, posterior-lateral, posterior width 22” or greater, any height, including any type of mounting hardware
- Icon Tall Back- **E2616** Positioning wheelchair back cushion, posterior-lateral, posterior width less than 22”, any height, including any type of mounting hardware
- Icon Back Deep- **E2620** Positioning wheelchair back cushion, planar back with lateral supports, width less than 22”, any height, including mounting hardware
- Replacement Covers- **E2619**
www.varilite.com

- For current price list and sizing info
- Technical Guide available in downloadable PDF
- Icon Back System Brochure
- HCPCS Codes and reimbursement info for customers in the U.S.
- Ride Safe brochure