



## The Convoid Flyer

1

### Content

Convoid Portfolio

Convoid Flyer

Target Users

Main Features

Standard Features

Options

Documents



2

2

1

## Convoid Brand Attributes

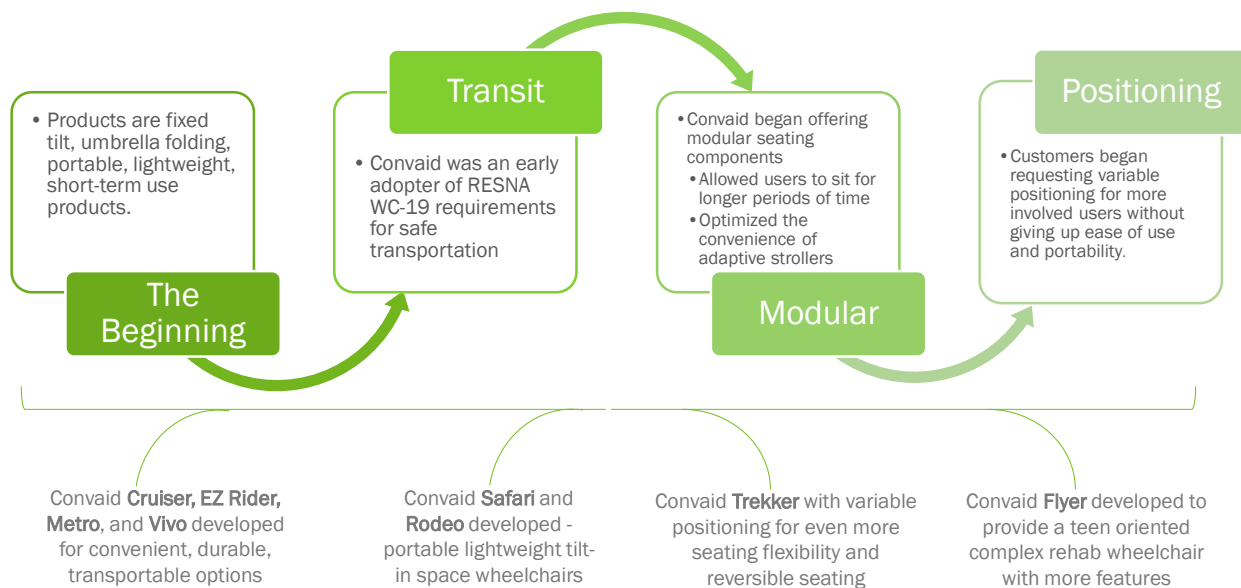
### All Convoid Products:

- Have positioning support, yet look like a stroller
- Are highly durable
- Exceed industry standard for fatigue testing
- Don't have to maintenance them once purchased
- Irrefutable brand image in the market
- Compact designs allows easy transport in the trunk of most compact cars to facilitate travel on daily excursions
- Offer the optimal combination of corrective positioning, comfort, durability and safety for the users
- Easy-to-use for the caregivers



3

## Convoid Product Evolution



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## Convaid Flyer

A width-expandable chair that grows with the child

Uniquely designed tilt-in-space base that also accepts more complex adaptive seating

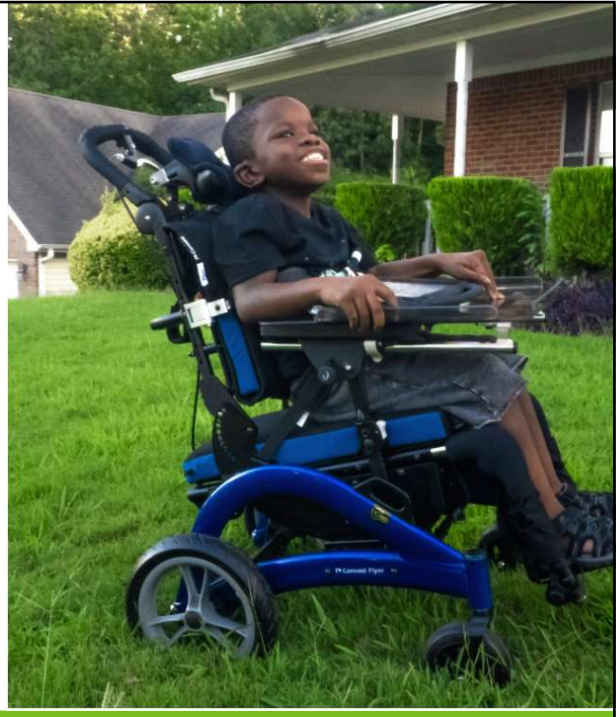
### Standard includes

- Center of gravity tilt
  - 5° anterior & 40° posterior
  - 30° back angle adjustment

Optional recline of 170°

Large selection of accessories to achieve ideal positioning and support.

Unique aesthetic designed with teens in mind and very popular with the youth market



5

## Target users

- Central gravity axis tilt:
  - Aligns center of gravity with center of rotation and therefore, maintains the client's mass within the center of the frame
  - Provides greater environmental accessibility such as access to tabletop activities (keeping knees out of the way)
- Posterior tilt is often used for clients with:

significant muscle weakness

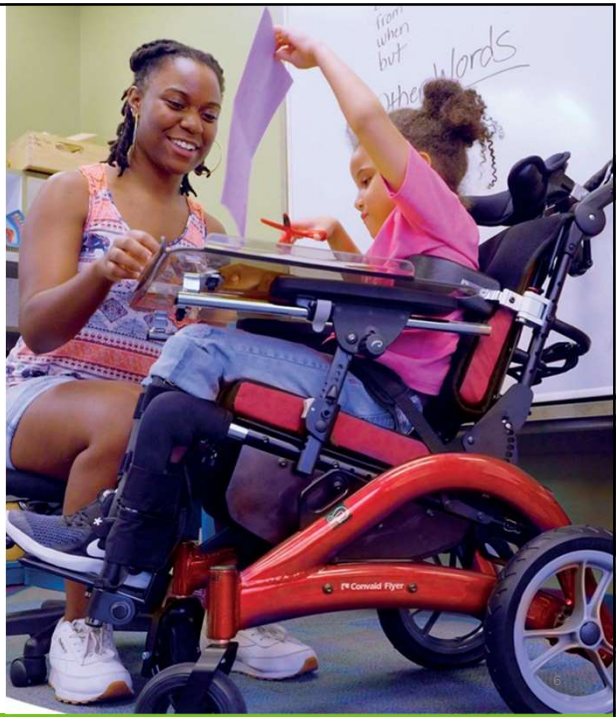
limited postural control

limited ability to weight shift and manage pressure relief

feeding/swallow issues

progressive muscle disease or paralysis (Spinal Muscular Atrophy, Muscular Dystrophy, Multiple Sclerosis, Amyotrophic Lateral Sclerosis)

acquired injury (Traumatic Brain Injury, Spinal Cord Injury)



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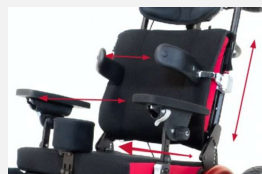


## Main Features



### 5° Anterior + 40° Posterior Tilt + 170° Recline

Adjustable tilt, recline, and the use of elevating leg rests leads to a number of clinical benefits based on available literature.



### Growth Capabilities

The Flyer is easily grown in seat height, seat width, and seat depth, allowing one wheelchair to grow with the child.

The first growth kit on the Convaid Flyer frame is free.



### Transportable

The Flyer seating module can be folded while attached to the mobility base, lifted and stored in vehicle for transport. With the base weighing <10lbs and the seating system weighing <20lbs, the Flyer is the lightest tilt in space on the market.



### Matrix Seating

The Flyer is available with Matrix seating on the Flyer Order Form. When ordered with Matrix seating, the Flyer will be shipped from Convaid with the Matrix seating and accessories installed. Reliably WC-19 tested frame, paired with Matrix's WC-20 tested seating ensures every passenger is safe.

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## Standard Features

### Standard

- 5 sizes (in inches): 12, 13, 14, 15, 16
- Central Gravity Axis Tilt-in-Space (-5°- +40°)
- 30° back angle adjustment (80° - 110°)
- Quick release rear wheels (12" or 16")
- Growable seat depth, seat width, back height
- Flip-up armrests (standard on FL15 & FL16)
- Removable front riggings with fixed angle footplate (65° or 90°)
- One-piece height-adjustable handlebar



4

8

# Options

## Options

- Seat cushions (Convoid or Matrix Seating)
- Upholstery color
- Frame color
- Frame (standard or back canes only)
- Recline system (80° – 170° degrees)
- Flip-Up or adjustable removable arm rests
- Rear wheel options (12" or 16")
- Quick release wheels
- Elevating leg rests or fixed angle (65° or 90°)
- Variety of accessories and positioning support

### Push Handle Options

- Two-Piece Push Handle
- One-Piece Height Adjustable Push Handle
  - Inside mount
  - Outside mount

### Armrest Options

- Height and Angle Adjustable Removable Armrests
- Flip-Up Armrests
- Standard on FL15 and FL16

### Clamshell Fold

### Footplate Options

- One-Piece Fixed or Angle Adjustable Footplates (Flip up and Reversible)
- Individual Fixed or Angle Adjustable Footplates (Flip up and Reversible)



### Choice of Three Back Cane Heights

- Short: 19"
- Medium: 22"
- Tall: 25"

### CG Tilt-in-Space (-5° to +40°)

### Standard 30° Back Angle Adjustment (80° to 110°)

- Recline Option
  - 80° to 170° (U.S. Only)
  - 80° to 130° (Canada Only)

### Single Foot Activated Wheel Lock

### Tire Options

- 11.5" Rear Tire, 6" x 2" Front Caster
- 15" Front Seat to Floor Height
- 16" Rear Tire, 7.5" x 2" Front Caster
- 17" Front Seat to Floor Height

### Elevating Front Riggings (Optional)



# Upholstery and Frame Color Options

## Matrix Upholstery Color Options:

Durable, water resistant, abrasion resistance, high performance, comfortable feel for user



Black Startex



Kidabra Meshtex



Meshtex



Blizzard Blue Startex



Pink Lollipop Startex

## Flyer Frame Color Options:



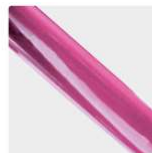
Royal Blue



Cosmic Silver



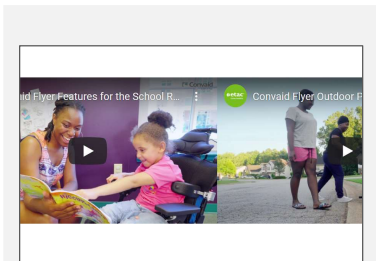
Cherry Red



Plum Purple



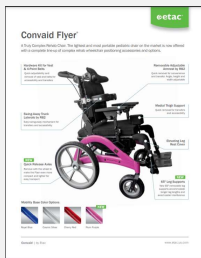
# Support Materials



### Flyer Lifestyle Videos

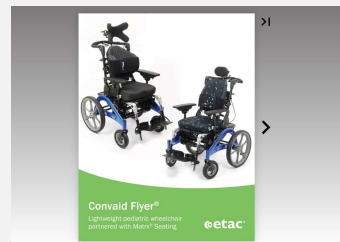
These beautiful videos consolidate the features of the Convoid Flyer into a quick and easy-to-understand video.

Located under "Discover" on the Trekker product page at [www.etac.us.com](http://www.etac.us.com)



### Flyer Sell Sheet

This Flyer Sell Sheet quickly and easily lays out the latest upgrades and advances of the Convoid Flyer for your convenience.



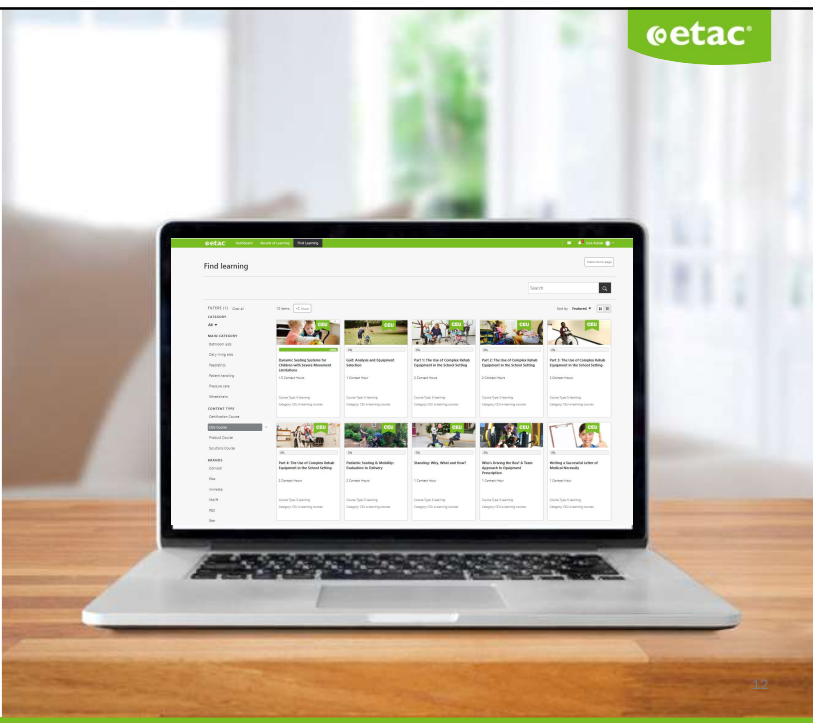
### Flyer + Matrix Brochure

Learn more about the Convoid Flyer and offered Matrix seating in our interactive brochure. Read the brochure [here](#).

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## Convoid Mobility and Matrix Seating, a WINNING COMBINATION!



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1



### MATRIX CONTOURED SEATING

**Stability** – By supporting lateral aspects of the pelvis with femoral alignment and weight bearing.

**Contour** – Cushion front contour promotes hip abduction for optimized base of support. Back provides scapular relief upper extremities for improved function. Shapes designed for maximum contact and proprioceptive input for improved comfort.

**Growth** – Much of the ‘growth spurts’ that children exhibit are in length or height. Matrix Back hardware allows easy adjustment for depth growth. Matrix PS & PSP pediatric size cushions feature an elongated ischial target.

**Back Orientation** – Fine tune hardware for optimal position within chair frame, both angle and depth, with the person in the chair.

**Aesthetics** – See the child, not the seating! Improved social interaction and social acceptance.

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**MATRX® PS CUSHION – E2605 Positioning**



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**PS & PSP PEDIATRIC CUSHION DESIGN**

Ischial Relief Growth Zone

Waffled Ischial Relief (underside view)



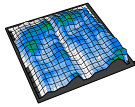
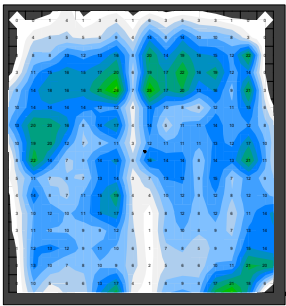
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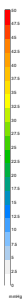




## MATRIX PS & PSP CUSHION DESIGN



Minimum (kPa)	0.00
Maximum (kPa)	20.00
Average (kPa)	0.00
Standard Deviation (kPa)	0.00
Minimum (psi)	0.00
Maximum (psi)	2.90
Average (psi)	0.00
Standard Deviation (psi)	0.00
Minimum (mmHg)	0.00
Maximum (mmHg)	29.00
Average (mmHg)	0.00
Standard Deviation (mmHg)	0.00
Minimum (kPa)	0.00
Maximum (kPa)	20.00
Average (kPa)	0.00
Standard Deviation (kPa)	0.00
Minimum (psi)	0.00
Maximum (psi)	2.90
Average (psi)	0.00
Standard Deviation (psi)	0.00
Minimum (mmHg)	0.00
Maximum (mmHg)	29.00
Average (mmHg)	0.00
Standard Deviation (mmHg)	0.00



Anatomical contour increases contact surface area

The larger the contact surface area, the less pressure the human tissues are subjected to at any given point

Waffled ischial relief provides offloading to hips and thighs

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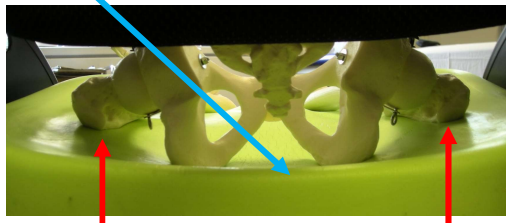
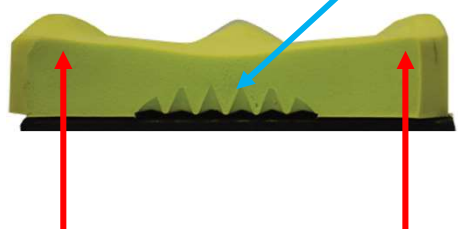
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## INVACARE® MATRIX® PS & PSP CUSHION

Waffled relief area provides immersion to ischial and sacral prominences



Pressure re-distribution - off loading of force to hips/thighs

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## MATRIX® PSP CUSHION – E2607 Skin Protection and Positioning

Pressure re-distribution - off loading of force to hips/thighs

Waffled relief area provides immersion to ischial and sacral prominences

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## PSP POLYMER – COOLING EFFECT

Cooler surface T° under ITs by 2°C

PSP vs PS cushion - Interface temperatures under the ischial tuberosities

Duration of sitting	PSP temp (°C)	PS (°C)
T1 (5 min)	32.60	33.93
T2 (10 min)	32.75	33.88
T3 (15 min)	32.83	33.85
T4 (20 min)	32.93	33.85
T5 (25 min)	33.00	34.18
T6 (30 min)	33.07	34.43
T7 (35 min)	33.20	34.70
T8 (40 min)	33.27	35.00
T9 (45 min)	33.37	35.15
T10 (50 min)	33.43	35.43
T11 (55 min)	33.43	35.58
T12 (1 hour)	33.63	35.73
T13 (65 min)	33.83	35.83
T14 (70 min)	34.07	35.98
T15 (75 min)	34.23	36.05
T16 (80 min)	34.31	36.15
T17 (85 min)	34.43	36.23
T18 (90 min)	34.60	36.28
T19 (95 min)	34.68	36.35
T20 (100 min)	34.67	36.40
T21 (105 min)	34.71	36.43
T22 (110 min)	34.72	36.48
T23 (115 min)	34.70	36.53
T24 (120 min)	34.73	36.58
T24 (2 hours)	34.87	36.60

Table 9. Proposed classification system for cushion thermal properties.

Property	Heat Dissipation		Moisture Dissipation	
	High	Low	High	Low
T <sub>1</sub> < 34 °C	X	—	—	—
T <sub>1</sub> > 36.5 °C	—	X	—	—
H <sub>1</sub> < 40 % RH	—	—	X	—
H <sub>1</sub> > 60 % RH	—	—	—	X

RH = relative humidity, T<sub>1</sub> = temperature (°C) 1 h after contact, H<sub>1</sub> = relative humidity (%) 1 h after contact.

(Ferguson-Pell et al., 2009)

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**PS AND PSP OUTER COVERS standard with reversable Startex**

**Anti-bacterial:**  
AATCC Method 147-1988 Staphylococcus A, contact inhibition 99%+

**Anti-Fungal:**  
AATCC Method 30-1998-Aspergillus Niger, contact inhibition 99%+

**Cytotoxicity:**  
Method SOP:EA-WI-015. Result: "negative" toxicity

**Advantages of Startex:**  
Complies with **Biocompatibility regulations:**  
**Prop 65** (Safe Drinking Water and Toxic Enforcement Act, California)  
**REACH** (European Union, Biosafety legislation)  
**RoHs** (EU Restriction of Hazardous Substances)

**Stronger:** Tear strength: 11.7 lbf & Hydrostatic burst: 200 psi  
**Non-slippery**  
**Highly stretchable**  
**Endures repeated use of hospital-grade disinfectant wipes**



**Pediatric Cushions/Backs Fabric Options**


- Pink Lollipop Startex
- Blizzard Blue Startex
- Kid\*ab\*ra Meshtex
- Black Startex

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**MATRIX CUSHION POSITIONING FEATURES**



Rear cushion radius

Trochanteric shelf

PELVIC SEAT WELL

Pre-ischial support

Midline

Positioning

Waterfall front edge

10



### MATRIX® LIBRA CUSHION – E2624 Adjustable Skin Protection and Positioning



Platilon Inner liner, choice of Startex fabric or reverse Startex wipeable outer cover

11

11



### MATRIX CUSHION DESIGN FEATURES

All Matrix® molded green foams contain **Ultra-Fresh™ antimicrobial formula**



Information and images retrieved from TRA website: <https://ultra-fresh.com/antimicrobial-applications/antimicrobial-polyurethane-foam/>

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12

12



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HEALTHCARE SECTOR

### MATRIX CUSHIONS



**Polyurethane foam without antimicrobial treatment**  
Polyurethane foam without Ultra-Fresh supports fungal growth



**Ultra-Fresh antimicrobial treated PU foam**  
Ultra-Fresh treated polyurethane foam prevents fungal and bacterial growth.

Images retrieved from TRA website: <https://ultra-fresh.com/antimicrobial-applications/antimicrobial-plastic/>

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### MATRIX® MINI BACK



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14



### MATRIX MINI BACK ON CONVAID FLYER



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### CONVENIENCE & PORTABILITY



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### MINI FIXED LATERALS



- Standard Fixed Hardware
- Pad 4.5" High x 3 " Long

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17

17



### MINIFLEX ABDOMINAL SUPPORT



For Matrix Mini Backs 10" – 14" wide  
4.5" high and 6" high options

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## MATRIX CHEST HARNESS INTERFACE



Mini Interface shown below with Body Point Strap Guides

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19

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REALIZED CONCEPTS

## MINISET HARDWARE



**MiniSet Hardware** – standard on all E2 Backs up to 16 inches high

- Fits 1" diameter back canes, inserts for  $\frac{3}{4}$ " and  $\frac{7}{8}$ " back canes included.
- Height, Depth (2" in front or behind back canes), Angle (40 degrees) and Rotation adjustable
- Adjustments may be made with user seated in back.

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20



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**MATRIX E2 BACKS**

**E2 Standard**



**E2 Deep**



		W I D T H		
		14"	15"	16"
H E I G H T	FITS W/C	13"-15"	14"-16"	15"-17"
	6"	•	•	•
	8"	•	•	•
	10"	•	•	•
	12"	•	•	•
	14"	•	•	•
	16"	•	•	•

• MiniSet Hardware

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21

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**E2 HEIGHT AND WIDTH ADJUSTMENTS**



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22



## E2 HEIGHT ADJUSTMENT



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23



## E2 ANGLE, DEPTH, ROTATION ADJUSTMENT



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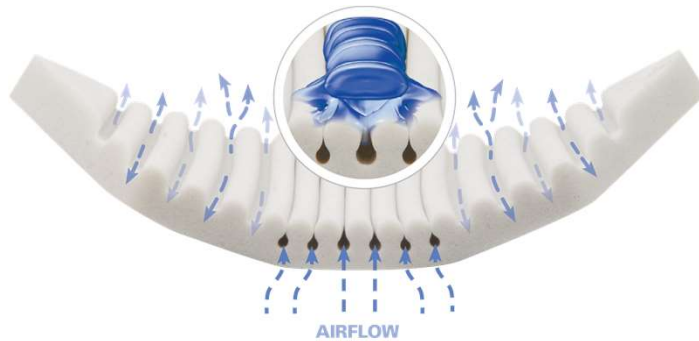
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24

24



## E2 RIPPLEFOAM



### Ripple Foam

- Airflow channels for temperature and humidity control
- Rippled top surface for immersion and comfort, solid HR backing for support and protection
- Extra immersion and shear reduction in spinal relief area
- Allows perfect fit of foam to back contour

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25



## SEAT TO BACK TRANSITION WITH RECLINE



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26

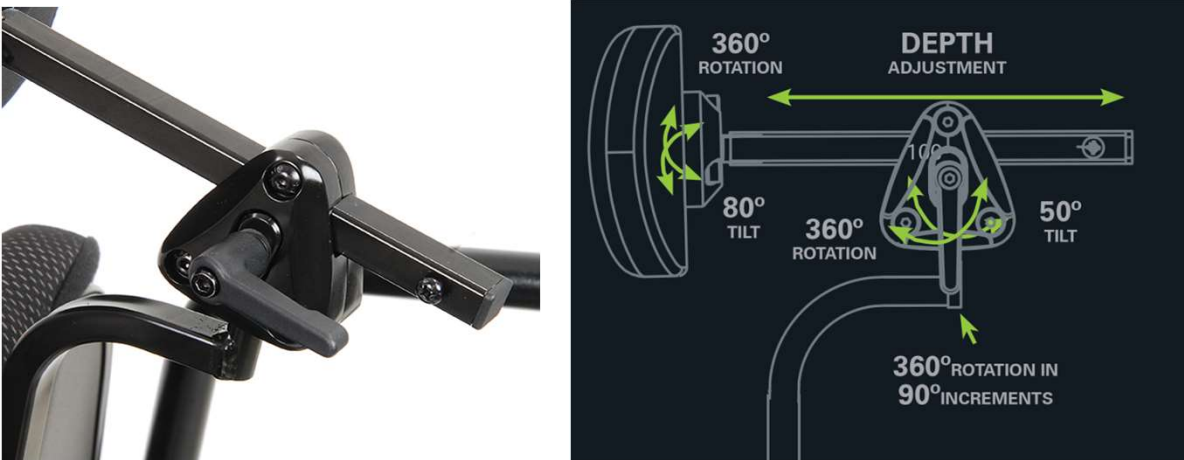
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**MATRIX® ELAN HEADREST PADS**



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**MATRIX® LOXX - EASY AND INTUITIVE**



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SEATING SERIES**LOXX SET UP AND ADJUSTMENT**

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29

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# THANK YOU!

Stephanie Tanguay: [stanguay@motionconcepts.com](mailto:stanguay@motionconcepts.com)

For more information please visit our website at:

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

30

30