

JAY[®] J3 Cushion

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JAY[®] The best just got better!





Jay Cushion Technology

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Jay – the gold standard in seating and positioning

Jay has long been accepted as the gold standard for effective seating and positioning. It is an established clinical leader worldwide for pressure redistribution and postural management for the wheelchair seated client. Additionally, its ease of use and minimal maintenance (critical considerations for successful outcomes) render it the optimal choice for clinicians, end users and carers alike.

The Jay concept – how it works: immersion, envelopment, redirection of force

- The substantial fluid pad contained within a firm base provides immersion of the 'at risk' bony prominences and envelopment of the pelvis
- The pressure is redirected away from the ischial tuberosities and coccyx onto more load-tolerant structures, namely trochanters and femurs.
- These are supported on the pelvic loading area and the firm base

The Result:
Pressure redistribution and stability

Building on proven foundations the new Jay J3 has been designed and engineered to incorporate increased knowledge in:

- Human physiology
- Science of materials (please refer to page 11 for additional information)
- Anthropometrics
- Design techniques
- Plus - invaluable feedback from clinicians, carers and end users

The Result: the Jay J3 cushion

A cushion that features superior pressure redistribution, optimal postural stability, heat and moisture dissipation and comfort.

Enhancements/Improvements

- Optiwell technology
- Choice of fluid pads (Factory Filled or Field Variable)
- Fluid pad redesign
- New cover



A) Jay J3 Range

The Jay J3 cushion is an excellent solution for the client at high to extreme risk of skin breakdown who requires lateral and forward/rearward postural stability. It is designed for clients who may have moderate to aggressive positioning needs or needs that change over time.

Note: This information is for reference only. All prescriptions should be based on clinical assessment findings.

1 | Two Depths – Standard and Deep


The Jay J3 is available in either a deep or a standard profile. The deep version offers maximum immersion for the client at the highest level of skin risk who may have severe muscle atrophy and/or tissue integrity compromise. The standard version provides pressure redistribution and stability for the high risk client where muscle mass and tissue integrity are not as compromised.

Standard: High skin risk client



9,5 cm

Deep: Highest level of skin risk – requires maximum immersion due to significant muscle atrophy



10,8 cm

2 | Sizes

Cushion Width *		30	35	38	40	42	44	46	48	50	56	60
Cushion Depth	30	■										
	35	■	■									
	38	■	■	■								
	40	■	■	■	■							
	42	■	■	■	■	■						
	44	■	■	■	■	■	■					
	46	■	■	■	■	■	■	■				
	48	■	■	■	■	■	■	■	■			
	50	■	■	■	■	■	■	■	■	■		
	56	■	■	■	■	■	■	■	■	■	■	
	60	■	■	■	■	■	■	■	■	■	■	■

The Jay J3 cushion is available in many sizes ranging from 30 x 30 to 60 x 60 cm. Cushion is ordered to fit the wheelchair.

All sizes have an increased user weight capacity to better serve the needs of the bariatric population
 Max user weight 30cm - 48 cm = 150kg
 Max user weight 50cm - 60cm = 227kg

More information can be found at www.jay3seating.eu
 * 30cm and 35 cm cushion not available in deep profile.



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B) Optiwell™ Pelvic Loading Area (PLA)

1

Size

The PLA is sized to match the anthropometric measurements of the pelvis and is independent of the cushion width. The pelvis “fits” the well.

Relevance:

Ensures clinical goals of optimal pressure distribution and lateral stability. Optimal immersion of the ischials into the fluid is achieved and pressure is redirected to the femurs on the PLA and cushion base.

This effectively:

- minimizes the risk of “bottoming out”
- minimizes risk of decreased lateral stability, pelvic obliquity and potential skin breakdown

How is this achieved?

Three PLA sizes are available. Variations are achieved using PLA reducer rings. First determine cushion width and then determine the PLA size.

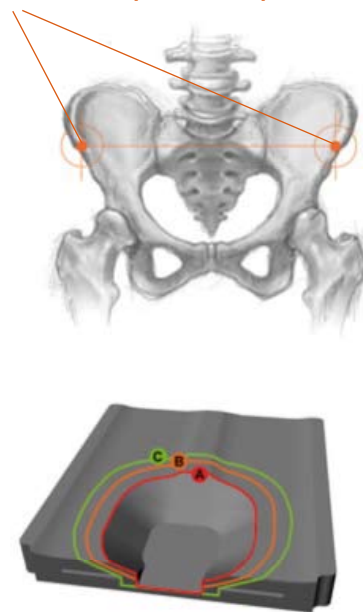


In this example the cushion ordered to fit the wheelchair has a size B PLA as standard but the client requires a size A PLA. This is achieved by inserting a B -> A PLA reducer ring.

The PLA size is determined by measuring the ASIS width and referring to the table below.

Note: ASIS width correlates with bitrochanteric width and ensures correct PLA size for ischial immersion and pressure redistribution to trochanters and femurs

ASIS (Anterior Superior Iliac Spine)



J3 cushion PLA sizing to ASIS landmarks

Cushion width	PLA size	ASIS width
30 - 38 cm	A	< 25 cm
40 - 48 cm	B	25 - 30 cm
50 - 60 cm	C	> 30 cm

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2 | Shape

The Optiwell™ slope is designed to redistribute the load from the ischials to the trochanters with the highest degree of anatomical alignment. This minimizes tension on the soft tissues between the bony prominences and optimises comfort.





PLA Fluid Inserts

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C) PLA Fluid Inserts – Options & Redesign

The fluid insert is always sized to match the PLA size.



Options

1 | Factory Filled (FF)

- Standard option, not field adjustable
- Can be overfilled, underfilled or asymmetrically filled in the factory if required

FF standard option



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2 | Field Variable (FV)

- Opportunity for in-field adjustment to
 - Optimize fluid levels e.g. correct/ accommodate pelvic obliquity
 - Accommodate changing needs

How is this achieved?

- Each FV fluid insert ships underfilled (18%)
- Each FV fluid insert has four strategically placed attachment points to Velcro™ on the supplemental fluid pads
- Each FV insert ships with two Velcro™-on supplemental pads
- Additional pads may be ordered – S, M, L, XL

Result

Unique opportunity to achieve:

- Underfill, overfill, symmetrical or assymetrical fill levels as desired
- Flexibility and versatility to meet the clinical need

FV placement inserts



Redesign

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The fluid insert has been redesigned with key clinical and practical goals in mind

- Improved pressure redistribution
- Enhanced stability
- Ease of use i.e. minimal maintenance

This is achieved via new pleating geometry and increased segmentation of the fluid insert itself



New Pleating Geometry

Provides increased immersion and envelopment of the pelvis by increasing surface contact area and accommodating the shape.



Segmentation

Provides increased immersion and envelopment of the pelvis by decreasing surface tension of the fluid pad membrane.



Together these design features minimize fluid migration thereby greatly enhancing both pressure distribution and stability.





Covers

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D) New Cover Technology

Comfort:

- Reticulated foam comfort layer within cover results in increased sitting tolerance. Comfort is critically important as discomfort can result in pain, fatigue, increased tone and equipment abandonment

Tension Reduction:

- Oversized cover reduces surface tension thereby allowing optimal immersion of pelvis into fluid pad



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Options

1

Microclimatic

- Standard and recommended
- 3DX™ spacer fabric helps dissipate heat and moisture away from the body – vitally important as heat and moisture build-up are known risk factors for skin breakdown
- Reticulated foam layer further vents heat and moisture



2

Incontinence

- If ongoing incontinence is an issue an optional incontinence cover is available

- Warranty: 6 months
- Care: machine wash at 60°, drip dry or tumble dry at low heat

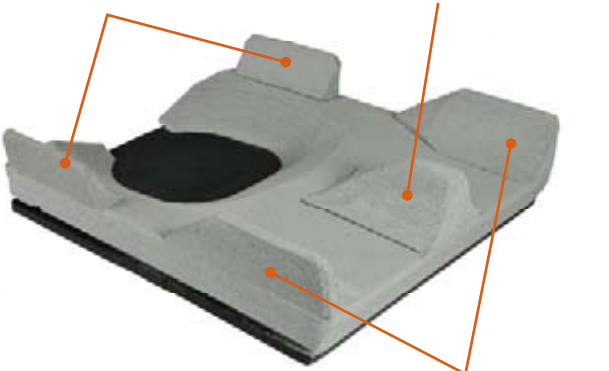


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E) Positioning

- When positioning accessories are required the cover is customized with
 - profiled pockets to match the shape of the underlying components
 - extra material and pleats to minimize surface tension

- Lateral Pelvic Supports
 - Medial Thigh Support
 - Lateral Thigh Supports
- 

1 | Base & Positioning Accessories

Jay J3 offers excellent positioning capabilities via the very stable, non-porous closed cell foam base and the addition of a variety of positioning components to create deeper contours. The deeper contours provide stability and positioning but also increase contact area for added pressure distribution. The accessories are firmly attached via re-usable PSA tape.

The following positioning accessories are available

- 1" and 2" lateral thigh supports
- 1" and 2" medial thigh supports
- 1" and 2" lateral pelvic supports
- Solid seat
- Adjustable drop seat





Modifications

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The Jay J3 positioning capability is further enhanced by the ability to carve the base and also modify fluid levels. Base modifications can be done either at the factory or in the field. Cutting and/or carving the base will not damage the structural integrity of the closed cell foam base.

Note: a one-time, free replacement base will be supplied if a mistake is made during carving the base

2 | Base Standard already included in the base

20° contracture cut



Seat rail notches



Sunrise Medical supports our customers by offering a wide range of customization options designed to meet the needs of the end user, many of which are no charge. To order a modification, simply contact our customer service team and discuss the user's needs and what options may be available.

Modification*	Description
Increased Height	Adds total height to cushion
Angle Cut Posterior/Anterior Slope	Remove material from cushion to create forward or rearward angle
Angle Wedge	Adds material to create forward or rearward angle
Underfills	Remove fluid to create ideal immersion
Overfills	Add fluid to prevent user from bottoming out in cushion
Obliquity Underfills or Overfills	Adds or removes fluid in one of the 3 fluid pad segments to handle obliquities
Notch for Rails	Remove material from cushion to lower cushion between the wheelchair seat rails
Notch for Back Cane	Add or remove material to adjust the location the cushion lines up against the seat rails
Leg Length Cut	Cuts different lengths into the cushion with a custom cover.
Contracture Cut	Standard angle to remove on the J3 cushion is 20 degrees. Can increase this up to 45 degrees
Leg Trough Cut (1" std)	For improved positioning, use this modification to increase the depth of the cushion to support the femurs
Custom Drop Seat	Adds a solid hinge system to be able to place the seat cushion below the seat rails and effectively lower seat to floor height
Embroidery	Can add personalization to cushion for identification purposes. (Great for large facilities or product identification during cleaning)
Change Length or Width	Customizes the size of the cushion by removing or adding material with a custom cover
Change PLA Location	Change the location of the PLA (for instance add 2" of foam to rear, remove from front to adjust PLA forward for sacral sitters)

* If there is a modification that is not listed above, contact Customer Services and we will do our best to accommodate your needs.

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3 | Fluid Pad

The fluid pad can be underfilled, overfilled or assymmetrically filled to meet either a positioning or skin integrity need

- Refer to table opposite
- Refer to pg.6 for more information

Science of Seating



Hydrostatic Force



Equalizes loading forces to reduce peak pressures

Pre-contouring



Provides pressure reduction, positioning and stability

Positioning Capability



Provides proper positioning for postural needs

Tension Reduction



Tension-reducing materials maintain superior pressure reduction

Microclimatic Material



Allows the passage of air, heat and water from the user

Segmentation

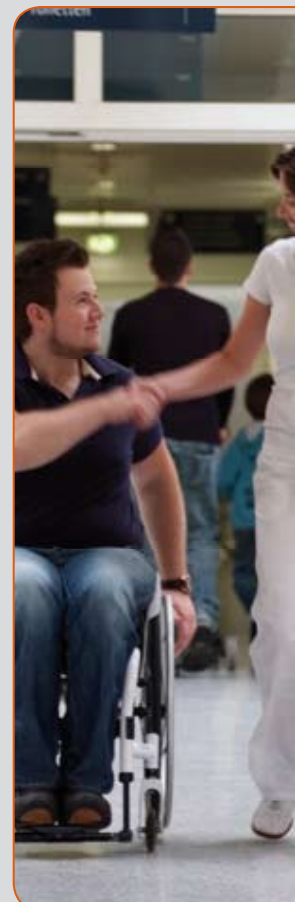


Helps localize change to minimize instability and the spread of tension

Stability



Provides stability for optimal function



www.jay3seating.eu

Combine a J3 cushion with a J3 back for a complete positioning system

The benefits of the Jay J3 cushion can only truly be maximized in conjunction with an appropriate back support to optimise alignment, stability, comfort and function.

With the ability to customize both the cushion and the back, a wide variety of clinical needs can be met. Versatility, adjustability and modularity provide the complete seating system for the end user's needs today with tomorrow's needs in mind. Please ask for details on our extensive range of Jay J3 backs.



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