JAY CUSHION & BACK RANGE
Compromises in clinical use are not acceptable.

Effectiveness and easy of use are the top priorities.

For this reason, JAY develops products that address the challenges whilst maintaining clinical efficacy.

Every single aspect is thought through, down to the last detail. A portfolio offering solutions that span the continuum of clinical need.

The result is a technological masterpiece: “JAY” combining stability, effective postural and pressure management, easy handling and comfort to the highest degree.
## JAY Cushion range

<table>
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<th>Comfort</th>
<th>Skin Protection</th>
<th>Skin Protection &amp; Positioning</th>
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<td>Union</td>
<td>Balance</td>
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<tr>
<td>Soft Combi P</td>
<td>Easy Fluid</td>
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<td>Easy Visco</td>
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<td>Zip</td>
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### Comfort
- Basic
- Soft Combi P
- Easy Visco
- Zip

### Skin Protection
- Union
- Easy Fluid
- Xtreme Active
- Lite
- Care
- Ion

### Skin Protection & Positioning
- Balance
- J2 / J2 DC
- J3
- GS

- Foam & increased Fluid/Air
- Balance
- J2 / J2 DC and J3
- Jay GS
# JAY Cushion and Back Range

## Comfort Range
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Clinical Performance Factors

The science and clinical application of mobility seating can be broken down into the following factors:

Skin Integrity (Pressure Redirection)

How seating can redirect the client’s weight to reduce peak pressures in critical zones and reduce the risk of skin breakdown.

Skin integrity is optimised by spreading the mass of the client
- over as wide a surface area as possible
- away from bony prominences to areas that can take load
- by reducing peak pressures in pressure sensitive areas

Solid materials; including foams, viscos and gels
- conform to the shape of the client to a varying degree dependant on the type of material (Fig 1 and 2)
- can provide some pressure reduction, BUT as solids there is always a material counterforce
- high compression creates counter-intuitive reactive pressure in the critical areas
- have limited ability to redistribute pressure from pressure sensitive areas

Liquids and gases (non-Newtonian)
- differ from solids as they displace, conforming completely to the form of the client without any counterforce working against the client (e.g. floating in a pool. (Fig 3)
- spread pressure evenly across entire body surface in contact (Fig 4)

Surface tension
All materials come in a container (cover, sac, foam surface)

Foams, gels, liquids, gases, can only displace and conform to the client’s contours when the surface materials are equally flexible and compliant. Water tightly filled into a flexible rubber ball will only displace as the rubber will flex.

To avoid surface materials restricting compression and displacement, it is essential that they are much larger than the compressing/displacing materials held within.

Bottoming out
All benefits of the best displacement/compression materials and the loose covers will be lost if the ischial tuberosities prominences actually pass through into the harder materials underneath! Clinicians must either ensure the pressure redirection materials allow enough immersion to not hit the bottom or that the cushion structure is designed to suspend and immerse the ITs.
Humidity and Heat Reduction

Certain clients are more at risk of skin breakdown than others. Excellent pressure redirection requires a uniform ‘immersion’ of the client’s surface, and as a result humidity may be created.

The impact of humidity can be reduced but not avoided by ‘wicking’ cover materials, and careful attention needs to be paid to ‘long term’ clients sitting in warm, humid conditions.

- Foams and gels are heat insulators and do not dissipate heat well
- Foams and gels have low thermal mass (seem warmer and can hold heat)
- Liquids and gases conduct and dissipate heat to a certain degree
- JAY Fluid has medium thermal mass
- Air cushions have low thermal mass (seem colder and dissipate heat more effectively)

Rubber and neoprene covers prevent the dissipation of humidity. The key issue is cushion design and the materials surrounding the cushion:

- wicking covers help
- clothing’s critical; e.g. cotton is bad for moisture retention

Clothing and incontinence have a higher impact on humidity than the cushion’s materials themselves.

Weight shifting is critical to heat dissipation as well as to pressure redistribution. Active users usually weight shift to dissipate heat as well as pressure. Passive users can not dissipate their heat by weight shifting.

Select the most suitable seating material based upon the skin assessment

- gases and liquids where the client is at moderate to higher risk
- foam, viscous and gels in lower to moderate risk cases for budgetary and weight benefits

Displacement of fluid/air under the bony prominences alone is not sufficient to preserve skin integrity. Cushion design must also provide stability and positioning of the pelvis and femurs. This minimizes the risk of “bottoming out”.

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Shear Reduction

Shear and frictional forces are critical elements in client safety. Clients with a high risk of tissue breakdown may receive good or adequate pressure reduction yet can experience significant friction and shear forces when transferring or sliding forward due to poor positioning.

Foams, viscous and gels are compressible solids which do not displace (Fig 1). This creates a “counteractive” response to the client’s horizontal movements which may result in friction and shear in pressure sensitive tissues.

Gases and liquids displace (Fig 2) and offer a minimal lateral shear force, which is beneficial at critical points.

As in pressure redistribution, shear and friction can be partially mitigated but is also dependent on the surface tension of the materials. Tight covers and fluid sacs create surface tension of their own!

Stability

A cushion can only function effectively if the client is ‘stable’ in the specified position for his/her activities and pressure can be effectively redistributed. The key is to stabilise the pelvis:

**Anterior/Posterior Stability:** by ensuring that the pelvic loading area (well) has adequate depth to allow immersion of the ischial tuberosities with the trochanters/femurs supported and the presence of the anterior shelf, the pelvis is stabilized in optimal AP alignment.

A solid back rest to provide posterior pelvic support is highly recommended to facilitate this alignment and minimize posterior pelvic tilt.

**Lateral Stability:** simple visco, gel, fluid or air cushions may provide initial pressure reduction, but will not function effectively if it cannot provide stability.

The perfect seating that offers very low shear would be easy to slide off and poor for stability and positioning if it was the only structure used within the cushion.

The key is to minimise shear in the critical client zones, whilst utilising less sensitive areas to receive the diverted pressure and provide the client with stability and postural support.

Whilst a ‘well’ (pelvic loading area) can be deep for the Ischial Tuberosities, the trochanters should be well supported to reduce lateral tilt resulting in pelvic obliquity. Not only does this improve client activity and posture, but it also reduces the likelihood of increased pressure on one Ischial creating the risk of bottoming out.

Cushions made for pressure reduction should also provide a firmer surrounding structure to stabilise the client when stability is a desired outcome.
Clinical Performance Factors

Positioning

Stability and positioning are very similar concepts. This may involve a combination of increasing or customizing contours of the cushion itself (contouring for pelvis, trochanters and thighs), the positioning of the wheelchair seating platform and the choice and application of the backrest system.

Positioning becomes critical where clients have postural deformity. These clients may require a ‘custom configuration’ of fluid pads, additional stability supports and/or ‘cut outs’.

Positioning cushions have much firmer bases than ‘comfort products’ to ensure that they carve correctly and that additional positioning elements are held firmly in place.

Approximately 30% of all clients will need specialist positioning, and it is here that clinicians use their specialist skills with positioning cushions and modular accessories [e.g. JAY J3 or J2]

Seating Tolerance

Comfort is subjective, but seating tolerance can be considered to be an objective measure. It is essential to assess this in relation to the time the client expects to spend in the chair. Short term users may only be interested in the initial comfort, but it is essential that longer term users assess cushion comfort over a period of several hours.

Clients need to balance their comfort perceptions with their stability, pressure redirection, physical and positioning requirements. Clearly a very soft cushion may provide excellent comfort, but will not provide stability and may be too high to provide suitable seat to floor height.

Positioning cushions may not be as ‘comfortable’ as a product that does not offer positioning. To maximize seating tolerance it is necessary to optimize pressure redistribution and shear reduction, maximize stability and positioning but also take into account comfort.
Functional Seating Characteristics

Size Range
We offer a lot of sizes, please see individual cushion for available sizes.

Client Weight
A client with a weight higher than the maximum user weight stated on the cushion runs the risk of bottoming out. Pay attention to the larger sizes of a cushion range where a client could exceed specified limits.

Seat to Floor Height
Seat to floor height of the client on the cushion in their chair is important to ensure the clients can assess their environment. Active users often request low seat to floor height and low cushion weight, but need to retain pressure reduction and stability. Specialist active cushions exist (e.g. JAY Easy Fluid). Cushions offering protection for high risk clients via deeper immersion e.g. the J2 Deep Contour or J3 Deep Contour also comes with optional drop seats to address seat to floor height.
Cushion Weight
Relevant to active users for ease of vehicle transfers and for wheelchair propulsion.

Cushion Longevity
- Cushions are supplied with a fixed period of guarantee, for example 12 months to 5 years.
- Cushions made from a moulded open cell foam are softer and more comfortable for the user but also provide increased durability than non moulded open cell foam cushions.

Measuring the JAY Cushions
Measuring JAY cushions for the wheelchair is done in the following ways;
Fig A: Basic, Soft Combi P, J2, J2 DC, GS
Fig B: Easy Visco, Easy Fluid, Xtreme Active, JAY Lite, J3, J3 DC

Please note, the cushions’ dimensions are measured with the cover.
Basic
Long life comfort

Product Features:
- Durable moulded foam contoured for mild lateral and posterior stability
- Bevelled base for use with seat sling
- Incontinence cover

Clinical Application:
- Client requires comfort with minimal postal support
- Low risk of skin breakdown or shear, intact skin integrity
- Independent weight shifts
- Intermittent wheelchair user

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<thead>
<tr>
<th>Depth (in mm)</th>
<th>Maximum Height</th>
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<td>Front</td>
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<td>48</td>
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Weight cushion 480 x 400 mm 0.7 kg
Max. user weight 125 kg
Guarantee 2 years

These sizes are available, please see your order form for modifications or special sizes.
Product Features:
- Premoulded incontinence resistant coated foam base
- Deeper leg trough and medial thigh and trocantic support
- Easy-clean sealed foam with black incontinence cover
- Flat base
- Option of solid seat insert for sling seat use

Clinical Application:
- Designed for clients with symmetrical posture needing minimum to moderate postural support
- Provides moderate lateral stability as well as moderate forward/rearward stability
- Low risk of skin breakdown
- Independent weight shifts

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- Weight cushion 400 x 400 mm 0.8 kg
- Max. user weight 150 kg
- Guarantee 5 years

These sizes are available, please see your order form for modifications or special sizes.
Easy Visco
High level comfort and positioning with mild pressure redistribution

Product Features:
- Lightweight precontoured foam with medial/lateral thigh support
- Visco elastic foam in the seat well to allow immersion of the ischial tuberosities and load distribution to the femurs
- Sacral and seat rail notches
- Curved or flat base for use with solid or sling seat
- Incontinence cover as standard with option for microclimatic cover
- Solid seat (as option)

Clinical Application:
- Client with mild symmetric or asymmetric posture and moderate postural support requirements
- Provides moderate lateral stability as well as moderate forward/rearward stability
- Clients with low to moderate risk of skin breakdown and low shear risk
- Independent weight shifts

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These sizes are available, please see your order form for modifications or special sizes.
Product Features:

- Duals layered contoured foam base for mild positioning
- Soft and stretchable outer cover; 3DX™ fabric spacer underneath promotes air movement
- Outer cover available in pink, blue and black
- Stretchable water resistant incer cover which is easy to wipe off

Clinical Application:

- The Jay Zip cushion is designed through the use of anthropometric data so they are specially sized to meet a pediatric client’s unique needs.
- Provides moderate lateral stability as well as moderate forward/rearward stability
- Pediatrics with low to moderate risk of skin breakdown
- Independent weight shifts

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- Weight cushion: 300 x 300 mm
  - 0.9 kg
- Max. user weight: 75 kg
- Guarantee: 2 years

These sizes are available, please see your order form for modifications or special sizes.
Union

Effectively combining fluid and foam for medium to high skin protection, stability and low maintenance - ideal for active or passive users

Product Features:

- Lightweight, deeply contoured, multi-layered foam providing excellent stability for the pelvis and thighs
- Visco elastic op layer provides enhanced skin protection by increasing immersion and surface contact to spread pressure broadly
- New gel infused visco elastic top layer assists cooling by optimising air exchange and preventing heat retention
- Integral JAY fluid pad offers higher level skin protection by dynamically contouring around the pelvis and hips whilst being low maintenance - no kneading or fluid migration
- Two way stretch Dartex inner cover is water resistant and easy to clean. The Aquaguard zipper and anti-wicking thread ensure that the foam base stays dry.
- Microclimatic outer cover with 3DX™ spacer fabric vents heat and moisture to ensure skin stays cool and dry
- Available in 2 heights:
  - Standard height (110 mm): ideal for powerchair, tilt in space or standard manual chair users
  - Reduced height (90 mm): ideal for active users needing low seat height for transfers and optimal rear wheel access

Clinical Application:

- Active or passive clients with moderate to high risk of skin breakdown and shear
- Clients needing a deeper profiled cushion for stability and comfort without increasing cushion height
- Symmetrical or mildly asymmetrical postures requiring minimal correctional support
- Clients able to perform a partial or independent weight shift

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Max. Height (standard) 110 mm

<table>
<thead>
<tr>
<th>Weight cushion 400 x 440 mm</th>
<th>2.3 kg</th>
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<tbody>
<tr>
<td>Max. user weight</td>
<td></td>
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<tr>
<td>(width 360 - 540 mm)</td>
<td>136 kg</td>
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<tr>
<td>(width 560 - 600 mm)</td>
<td>277 kg</td>
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</tbody>
</table>

Guarantee 2 years

These sizes are available, please see your order form for modifications or special sizes.
Product Features:
- Lightweight precontoured foam base with sacral and seat rail notches
- The built-in medial and lateral thigh support promotes optimal thigh positioning
- Choice of curved or flat base for use with solid or sling seat
- Choice of incontinence or microclimatic cover
- Solid seat (as option)

Clinical Application:
- Client with symmetrical and mild asymmetrical posture and moderate postural support requirements
- Provides moderate lateral stability as well as moderate forward/rearward stability
- Moderate risk of skin breakdown and shear
- Independent weight shift

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<td>250 300 350 400 420 440 460 500 560 600</td>
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Weight cushion 400 x 400 mm: 1.6 kg
Max. user weight: 150 kg
Guarantee: 2 years

These sizes are available. Please see your order form for modifications or special sizes.
Xtreme Active
Skin protection for active users

Product Features:

- A lightweight and lowprofile cushion for an active performance and easy transfers
- The cushion offers two different fluid pad options: the standard fluid pad and the large fluid pad for advanced muscle atrophy
- The dual cover system promotes air flow and dissipates heat and moisture effectively
- Thighs positioning can be achieved through retrofittable leg support components.

Clinical Application:

- Active client with moderate to high risk of skin breakdown and shear
- Moderate to high skin protection and client does not want to go to a heavier, high profile cushion
- Symmetrical or mildly asymmetrical posture requiring minimal support
- Client able to perform an independent weight shift

<table>
<thead>
<tr>
<th>Depth (in mm)</th>
<th>Weight cushion 400 x 400 mm</th>
<th>Max. user weight</th>
<th>Guarantee</th>
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</thead>
<tbody>
<tr>
<td>Front</td>
<td>1,7 kg</td>
<td>150 kg</td>
<td>2 years</td>
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</table>

These sizes are available, please see your order form for modifications or special sizes.
SKIN PROTECTION
Lite
Specifically designed for the active client seeking minimal weight

Product Features:
- Firm, extremely lightweight, breathable, airflow layered foam base with ischial cut outs
- Excellent lateral and forward/rearward stability achieved via combination of Optiwell™ technology and firmness layering in base – “the pelvis fits the well”
- Optiwell technology, ischial cut-outs and scooped foam in pelvic loading area (PLA) effectively redistribute pressure away from the ‘at risk’ bony prominences
- Microclimatic cover with 3DX™ spacer fabric for heat and moisture dissipation

Clinical Application:
- Symmetrical client requires comfort with minimal weight but mild/moderate postural support
- Mild to moderate lateral and forward/rearward stability needs
- Moderate risk of skin breakdown
- Able to perform independent weight shifts
- Requires heat and moisture dissipation

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>Width Selections</th>
<th>Front Height</th>
<th>Rear Height</th>
<th>Maximum Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>350</td>
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<tr>
<td>350</td>
<td>280 380 400 420 440 460 480 500 540 600</td>
<td>80</td>
<td>80</td>
<td>95</td>
</tr>
</tbody>
</table>

Weight cushion 400 x 400 mm: 0.7 kg
Max. user weight 113 kg
Guarantee: 2 years

These sizes are available, please see your order form for modifications or special sizes.
SKIN PROTECTION

Care

Designed specifically to address the needs of the elderly client

Product Features:

- Contoured shape for symmetrical positioning and both forward/rearward and lateral stability
- “Fluid Tripad” incorporates three sections to ensure fluid remains under ischials with JAY Flow also protecting thighs and acting as incontinence resistant casing
- Longer seat well to accommodate sacral sitter
- Bevelled base for use with sling seat, impermeable and non-skid bottom
- Washable stretch cover
- One piece sealed system (except cover) so is easy to clean and re-apply to new clients

Clinical Application:

- Sacral sitter with symmetrical posture requiring moderate postural support
- Moderate risk of skin breakdown
- Can perform an independent weight shift

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>400</th>
<th>450</th>
<th>500</th>
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<tbody>
<tr>
<td>Width</td>
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<table>
<thead>
<tr>
<th>Height (in mm)</th>
<th>Maximum Height</th>
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<tbody>
<tr>
<td>Front</td>
<td>Rear 101</td>
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<tr>
<td>Rear</td>
<td>Rear 101</td>
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</table>

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Weight cushion</td>
<td>2,3 kg</td>
</tr>
<tr>
<td>Max. user weight</td>
<td>113 kg</td>
</tr>
<tr>
<td>Guarantee</td>
<td>2 years</td>
</tr>
</tbody>
</table>

These sizes are available, please see your order form for modifications or special sizes.
**Product Features:**

- Lightweight, pre-contoured, multi-layered foam base provide excellent stability for the pelvis and thighs
- Visco elastic top layer provides enhanced skin protection by increasing immersion and surface contact to spread pressure broadly whilst also preventing excessive heat build up
- Two way stretch Dartex inner cover is water resistant and easy to clean. The Aquaguard zipper and anti-wicking thread ensure that the foam base stays dry
- Microclimatic outer cover with 3DX™ spacer fabric vents heat and mositure to ensure skin stays cool and dry

**Clinical Application:**

- Client with symmetrical posture and moderate postural support requirements
- Provides moderate lateral stability as well as moderate forward/rearward stability
- Moderate risk of skin breakdown and shear
- Able to perform independent weight shifts
- Independent weight shift

**Depth Width**

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>Width (mm)</th>
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<tbody>
<tr>
<td>340</td>
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<td>400</td>
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<td>540</td>
<td>560</td>
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<td>560</td>
<td>600</td>
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</tbody>
</table>

**Max. Height (standard)**

<table>
<thead>
<tr>
<th>Weight cushion 440 x 460 mm</th>
<th>1.6 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. user weight (width 340 - 540 mm)</td>
<td>136 kg</td>
</tr>
<tr>
<td>(width 560 - 600 mm)</td>
<td>227 kg</td>
</tr>
</tbody>
</table>

Guarantee 2 years

These sizes are available, please see your order form for modifications or special sizes.
Optimised for skin protection, stability and comfort

Features:
- Features as the contoured thick soft foam layer that prevents IT and trochanter contacts
- The PLA shape with close rear wall to avoid fluid migration
- Three different inserts available: Cryo Fluid, Flow Fluid & air inserts
- The design of the fluid pad is low maintenance
- The dual-cover system offers a high degree of skin protection and comfort
- Three different covers available: microclimatic, incontinence and stretch

Clinical Application:
- Cushion allows envelopment and immersion of the prominent bony aereas of the pelvis, maximising pressure redistribution and maintaining skin integrity
- Maximum stability and positioning is achieved thanks to the PLA design based on anthropometric measurements
- The positioning elements can be fitted in the inner cover which encourages orthopedic alignment, increases sitting tolerance and accommodates changing user needs

Balance
Skin protection & positioning cushions

The multi-layered, contoured foam base with seat rail relief cut

<table>
<thead>
<tr>
<th>Max. Height (standard)</th>
<th>85 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight cushion 480 x 460 mm</td>
<td>2.4 kg Flow Fluid insert, 3.3 kg Cryo Fluid insert, 1.9 kg air insert</td>
</tr>
<tr>
<td>Max. user weight</td>
<td>150 kg (width 340 - 500 mm), 225 kg (width 560 - 600 mm)</td>
</tr>
<tr>
<td>Guarantee</td>
<td>2 years</td>
</tr>
</tbody>
</table>

Note: Balance with Cryo Fluid only available from 400 mm cushion width. Please see your order form for modifications or special sizes.
The field-adjustable positioning components
With the optional pelvic obliquity pads and positioning components, the pelvic and thighs can be properly positioned for many clinical applications.

Cryo® Fluid, JAY Flow Fluid or Air Inserts
The JAY Balance may be ordered with Cryo Fluid, JAY Flow Fluid or air inserts, which conform to each individual’s shape, adjust to sitting positions, and ensure proper fluid placement beneath bony prominences to help protect the skin from breakdown. Additionally, the Cryo Fluid actively cools the user’s seated skin surface for up to 8 hours. For further information see Cryo Fluid brochure.

Innovative, Dual-Cover System
Balance cushion features a dual-cover system.

The *inner cover* is water-resistant and easy to wipe off and clean, while its Aqua-guard zipper and antiwicking thread ensure that the foam base stays dry.

The *outer cover* dissipates heat and moisture for additional skin protection. Optionally, the Balance is also available with an outer stretch or incontinent cover. All covers are machine washable at 60° C and quick to dry.
**J2**

Stability and positioning with skin integrity protection

**Product Features:**

- Firm base, anatomical well, femoral loading
- Carveable base for build-ups, cut outs and customisation
- Jay Fluid Tripad for ischial immersion and envelopment
- Wide range of postural support accessories
- 3DX Microclimatic cover with stretchable neoprene sideband as standard, incontinence resistant cover and solid seat are options

**Clinical Application:**

- Client with high risk of skin breakdown and shear
- Designed for the client with symmetrical posture to aggressive postural needs that change over time
- Clients unable to weight shift; limited postural stability and unable to reposition

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>350</th>
<th>400</th>
<th>420</th>
<th>450</th>
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<thead>
<tr>
<th>Height (in mm)</th>
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<td>Front</td>
<td>Rear</td>
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<tr>
<td>80</td>
<td>80</td>
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<tr>
<td>90</td>
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</tbody>
</table>

| Weight cushion  | 2 kg           |
| Max. user weight| 150 kg         |
| Guarantee       | 2 years        |

These sizes are available, please see your order form for modifications or special sizes.
J2 Deep Contour

Features:
- Firm base; anatomically correct well
- Carveable base for build-ups, cut outs and customisation
- Jay Deep Fluid Tripad with soft foam overlay
- Wide range of postural support accessories
- 3DX Microclimatic cover with stretchable neoprene sideband as standard, incontinence resistant cover and solid seat are options

Clinical Application:
- Designed for the client with extreme long term risk of skin breakdown and symmetrical to aggressive postural needs
- Unable to weight shift or reposition

<table>
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<tr>
<th>Depth (mm)</th>
<th>Width</th>
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<th>400</th>
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</table>

Height (in mm) | Maximum Height
--- | ---
Front: 100 | Rear: 110

Weight cushion 410 x 410 mm: 2.4 kg
Max. user weight: 150 kg
Guarantee: 2 years

These sizes are available, please see your order form for modifications or special sizes.
J3 Standard and Deep Contour Cushion
Designed for the client with complex needs

Features:
- Precontoured, carvable, closed cell foam base with Optiwell™ technology i.e. anthropometrically designed pelvic loading area (PLA)
- Two Depths Versions
- Optiwell Technology
- The Choice of Fluid or Air PLA inserts
- Microclimatic or incontinence cover options. Comfort layer is integral to cover
- Modification possibilities

Clinical Application:
- Client at high (std. cushion) to extreme (deep contour cushion) risk of skin breakdown with or without aggressive postural needs
- Symmetrical to significant postural needs requiring laterally, forward/rearward stability and/or positioning
- May be unable to reposition or perform an independent weight shift

<table>
<thead>
<tr>
<th>Depth</th>
<th>Width</th>
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<tbody>
<tr>
<td>mm</td>
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<td>560</td>
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<td>600</td>
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</tbody>
</table>

Max. Height (standard) | 95 mm
Max. Height (Deep)    | 108 mm
Weight cushion         | 1,9 kg
Max. user weight (width 300 - 500 mm) | 150 kg
Max. user weight (width 560 - 600 mm) | 227 kg
Guarantee              | 2 years

These sizes are available, please see your order form for modifications or special sizes.
The cushion offers two contour depths

Standard contour: High skin risk client

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

The choice of Fluid or Air technology

**Fluid Inserts:**
Factory Filled (FF) PLA insert; also as Field Variable (FV) available

The JAY Flow Fluid Technology is the optimal choice when ease of use and minimal maintenance is priority.

**Air Inserts:**
Air Single Valve (AS) PLA insert; also as Air Dual Valve (AD) for unsymmetric adjustments available

The air insert is the optimal choice when easy or ongoing adjustment is required or a lighter weight solution is desired.

Different cover options

J3 offers two covers, the microclimatic and the incontinence cover.

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. The cover is oversized to reduce the surface tension and therefore allowing optimal immersion of the pelvis into the insert. Cleaning is easy, is machine-washable.
Accessories
J2, J2 Deep Contour and J3 modifications

All cushions can be modified, and offer excellent positioning possibilities. We offer a variety of positioning components, from single accessories to complete kits, including:

- Lateral thigh supports
- Medial thigh supports
- Lateral pelvic supports
- Pelvic obliquity wedges
- Solid seat

Cutting and/or carving the base will not damage the structural integrity of the closed cell foam base.

An one-time, free replacement base will be supplied if a mistake is made during carving the base.
Features:
- Lightweight foam base with growth capability via well inserts and a wide range of postural support. Contracutre cuts to accommodate tight harmstrings
- JAY Flow fluid pad
- For added skin protection there is a pressure relief pad with more fluid
- Incontinence resistant cover as standard (air exchange cover as option)

Clinical Application:
- Designed for the client with symmetrical and asymmetrical posture to aggressive postural needs that change over time
- Clients unable to weight shift; limited postural stability and unable to reposition
- Designed to grow with the child

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>Width (mm)</th>
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<tbody>
<tr>
<td>330</td>
<td>250 310 360 410 460</td>
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<table>
<thead>
<tr>
<th>Height (in mm)</th>
<th>Maximum Height</th>
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</thead>
<tbody>
<tr>
<td>Front</td>
<td>80 75 90</td>
</tr>
<tr>
<td>Weight cushion</td>
<td>250 x 330 mm</td>
</tr>
<tr>
<td>Max. user weight</td>
<td>113 kg</td>
</tr>
<tr>
<td>Guarantee</td>
<td>2 years</td>
</tr>
</tbody>
</table>

These sizes are available, please see your order form for modifications or special sizes.
For moderate to high positioning needs, the JAY J3 backrest offers the widest range of sizes, shapes and options for clients that require a precisely fitted and individually tailored backrest.

The anthropometrically designed JAY J3 is available in widths from 310 mm to 510 mm, four back heights, four support shapes all offering a full selection of contours to meet client needs from active manual chair users, right through to passive powerchair users.

- Suitable for moderate to high positioning
- Ability to customise and tailor to the individual
- Provides a precise fit for client (size, shape, heights, adjustment range, options)
- Lightweight design (ideal for active manual chair users but also suitable for power wheelchair users)
- Easy fitting 2 or 4 point adjustable mounting hardware
J3 Backs – Contours

Four contour depths

The JAY J3 Back offers 4 types of contour depths: Shallow Contour (SC) which provides 50 mm depth, Mid Contour (MC) with 80 mm depth, Deep Contour (DC) & Mid Deep Contour (MDC) with 150 mm depth. The MDC & DC Back is also available in an Extra Deep version with 180 mm depth.
**Four levels of support**

The users can choose between 4 different levels of support depending on their functional needs and level of trunk stability.

<table>
<thead>
<tr>
<th>Height</th>
<th>Code</th>
<th>Range</th>
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<tbody>
<tr>
<td>Shoulder Height</td>
<td>SH</td>
<td>530 - 610 mm</td>
</tr>
<tr>
<td>Upper Thoracic Height</td>
<td>UT</td>
<td>420 - 500 mm</td>
</tr>
<tr>
<td>Mid Thoracic Height</td>
<td>MT</td>
<td>300 - 380 mm</td>
</tr>
<tr>
<td>Lower Thoracic Height</td>
<td>LT</td>
<td>170 - 240 mm</td>
</tr>
</tbody>
</table>

**Three individual heights**

Two individuals may both require support at the same location on the spine; however, due to differences in height, they still require different height backs. This is why each support height is available in 3 different individual heights.
J3 Back range overview

- These contour depths and back heights are available in the following combinations

- **Shallow Contour (SC)**
  - Lower thoracic (LT)
  - Mid thoracic (MT)
  - Upper thoracic (UT)
  - Shoulder height (SH)
- **Mid Contour (MC)**
- **Deep Contour (DC)**
- **Mid Deep Contour (MDC)**

Laterals, headrest and harnesses available for SC, MC, DC, MDC

- **Widths available**
  - 310, 360, 410, 460 & 510 mm
  - 310, 360, 410, 460 & 510 mm
  - 360, 410, 460 & 510 mm
  - 310, 360, 410, 460 & 510 mm
J3 Backs – Spine align system

Very versatile spine align package

Spine Align Kit

- Shaping components to optimise postural stability and provide correction / accommodation of mild to moderate postural deformity
- Loading area can be maximized for skin integrity preservation
- Create reliefs
- Comfort and sitting tolerance

Different kits available, 7, 12 or 36 pcs.
Ease of use – JAY mounting hardware

The JAY mounting hardware is easy to fit, easy to remove, compact in size and packed with adjustments in width, depth, height, depth and angle. You can even adjust the back with the client in the chair.

Compact Mounting Hardware – for active users, 25% lighter as the standard hardware

Hardware Mounting Location

Frequently, obstructions such as towel bars and armrest receivers force clinicians, dealers and technicians to make compromises. To maximize compatibility, the unique attachment of the J3 compact mounting hardware occupies as little space as possible and mount without affecting the user’s fit.

Angle Adjustment

The JAY mounting hardware was designed to minimise loss of seat depth. When the J3 back is reclined the lower back position remains constant, resulting in no loss of seat depth.

Heavy Duty Compact Mounting Hardware – for passive users, focused on greater stability

Multi-Tubing Compatibility

The JAY mounting hardware features a clamp design that fits 19 mm D-Type tubes, 25 mm & 28 mm round tubes. With only one attaching clamp that is compatible with 90% of wheelchairs in the market and no need for additional hardware, the entire ordering and fitting process is simplified.

Width Adjustment

Many times backs fit the chair but not the user. To address this problem the backrest was designed with 50 mm of built-in width adjustment.
Headrests and Accessories

The JAY J3 Back offers Whitmyer headrests and a wide range of accessories to enable optimum user positioning in the backrest.

Whitmyer Headrests

Whitmyer Cobra Cradle Pad

Whitmyer AXYS with Plush Pad

Accessory bag

Stylish and durable accessory bag to safely store your essential items.

Lateral Supports

Lateral support - fixed or swing away
Available in 6 sizes - 100 x100 mm, 100 x120 mm, 100 x150 mm, 150 x100 mm, 150 x 120 mm and 150 x 150 mm

Chest straps and harnesses
available in 4 sizes (S, M, L and XL)

All J3 backs that can accommodate headrests have been tested and approved for transit against relevant ISO standards
IT’S SO LIGHT...

Carbon is lightweight and strong – therefore the ideal material for this backrest. Offering the same strength as aluminium (but 60 % lighter), the J3 Carbon back reduces the weight that a wheelchair user has to push, day-by-day.

... AND STYLISH

The J3 Carbon back will also impress with its unique and beautiful finish. An active and clean design combined with an elegant appearance – the stage is truly yours.
J3 Carbon - The support needed to be active

The J3 Carbon back provides great stability and comfort. Through the right pelvis support it offers firm stabilisation of the upper trunk and encourages an optimal spinal curve. This enhances the stability you need for a very active live, reduces back pain and provides a great comfort.

For all types of chairs

Whether a rigid or folding frame is used, the J3 Carbon is the proper back. The fixed or quick release version fit on all types of chairs.

Two different mounting systems for folding and rigid chairs available

The J3 Carbon back is available with two different mounting systems. The fixed system offers rigid wheelchair users a mounting option that’s extremely weight optimised. Alternatively, the quick-release system allows the backrest to be easily removed, ideal for mounting on a folding wheelchair. Regardless of choice, both mounting systems are designed as easy-to-handle, 2-point mounting systems and offer the same adjustments in angle, depth, height and width.
Choose your back...!

Different needs demand adequate solutions. The four back heights (from 170 to 380 mm) focus on the active user with a need for low to moderate posterior trunk support. Mild lateral trunk support is also given by the 50 mm contour depth.

Where are the keys?

The user now have somewhere to store those easy to misplace items with the new accessory bag. Not only will it keep all of the valuables in one place, but it also smartly covers the gap between the back and cushion.
JAY Easy Back

With the JAY experience in seating and positioning, the JAY Easy backrest is designed to offer simple, comfortable and effective support.

**Versatile One-step Release Hardware**

The hardware is easy to operate and to adjust for an optimal back support.

- Backrest can be released with only one hand. Unlock system on both sides with the cord then angle backrest and pull up to take it out of the fixation
- Hardware fits on all commonly used back tubes: 19 mm with insert, 22 – 23 mm with insert or 25 mm without insert
- Adjustable in height, width, depth and back angle with just one tool

**Innovative Cover Technology**

JAY Easy Back comes with a microclimatic cover and a soft foam underneath for maximum comfort and user protection.

- 3DX™ spacer fabric vents both heat and moisture and increases air flow
- Cover is machine washable at 60° C and quick to dry
- Shape of the back can be easily adapted to the user through lumbar pads
Choose your level of support

The JAY Easy Back system supports an upright posture and provides a stable and ergonomic seating position. The JAY Easy Back offers two different types of contours for an increased trunk stability depending on users needs.

![50 mm contour depth](image1)

**Shallow Contour:**
Mild lateral trunk support

![150 mm contour depth](image2)

**Posterior Deep Contour:**
High lateral trunk support

Different conditions and needs of the client demand adequate solutions. The three different heights focus on users with a need for moderate to full posterior support.

![Mid Thoracic, 380 mm](image3)

![Upper Thoracic, 460 mm](image4)

![Shoulder Height, 530 mm](image5)
The JAY Zip backrest was designed through the use of anthropometric data so they are specially sized to meet a pediatric client’s unique needs. It is an ultra lightweight backrest that features X-static™ and Aquaguard™ cover technologies as well as adjustable, quick release hardware to accommodate a wide range of mounting locations and user presentations.

**Versatile Quick Release Hardware**
- Easy quick release hardware
- Fits on wide range of tubing: 19 to 29 mm
- Numerous height adjustment options

**Convenient & Antimicrobial**

**Outer Cover**
- Machine washable and quick to dry
- Extra layer of microclimatic spacer fabric for comfort
- Safe non-toxic material

**Inner Cover**
- Easy to wipe off
- Aquaguard™ zipper resists moisture
- Anti-wicking seam thread protects foam base

<table>
<thead>
<tr>
<th>Backrest width:</th>
<th>200 / 250 / 300 / 350 mm</th>
<th>Back angle:</th>
<th>+20° to -20°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backrest height:</td>
<td>150 / 200 / 250 / 300 mm</td>
<td>Width adjustability:</td>
<td>+25 mm</td>
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<tr>
<td>Transport weight:</td>
<td>1.1 kg</td>
<td>Depth adjustability:</td>
<td>70 mm</td>
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<tr>
<td>Max. user weight:</td>
<td>75 kg</td>
<td>Accessories:</td>
<td>Headrest, Lateral support, spine align positioning components, chest strap, vanity flap and spare cover</td>
</tr>
</tbody>
</table>
J3 TC Back - Keep warm, stay cool

The first and only wheelchair back designed to help manage your own microclimate. Too hot? Flip the switch to cool down. Too cold? Flip the switch to warm up. Evaporative cooling helps to dissipate moisture on your skin and keeps you feeling refreshed. The heating system warms throughout the back, allowing you to fully enjoy those cold winter days.

3DX™ spacer fabric - Engineered to optimise airflow

The JAY J3 TC Back cover optimises airflow through the use of specialised fabrics and specially designed vents. The porous 3DX™ Spacer Fabric promotes airflow through the cushion to the TC insert. This microclimate cover is made of a quick drying fabric that helps to reduce heat and moisture build-up.

Cooling system with micro fans

The JAY J3 TC Back cooling system consists of a ventilation insert where small fans are incorporated. Once the cooling function is activated the air starts circulating from the back of the backrest to the front and is transported out of the backrest front through the ventilation bladder.

Patented thermal technology

The JAY J3 TC Back heating system uses heating coils to generate heat. Unlike others, this heating system has been specially designed for wheelchair users.
J3 TC Back

The proven JAY J3 positioning concept

The reliable JAY J3 Back system bases on an anthropometrically correct design for an optimal client fit. It supports an upright posture and provides a stable and ergonomic seating position.

Lateral support – fixed or swing away
Available in 6 sizes

3 different contoured back shells

- **Shallow Contour**: Moderate lateral support
- **Mid Contour**: Medium lateral support
- **Mid Deep Contour**: Full lateral support
JAY Fit Back – For a child’s independence

The improved JAY Fit Back is a modular adjustable contour back, especially designed for children & young adult’s needs. The back promotes the child’s independence and comfort through upper body stability and proper positioning.

Make it fit – more individuality and customisation

There are variety of options and accessories available on the JAY Fit that guarantees an optimal fit for the user.

- Lateral thoracic supports
- Lateral and posterior supports
- Spine alignment components
- JAY Positioning Supports
- Whitmyer® headrests

**JAY POSITIONING SUPPORTS**
A selected range of harnesses and positioning belts are offered together with the new JAY Fit back to address any additional positioning need.

**Whitmyer® Headrest**
Whitmyer® headrests provide support of the head and neck if you are using tilt-in-space wheelchairs or need additional support to hold your head upright.

**Lateral supports**
Adjustable, internally mounted fixed or swing away lateral thoracic supports.

**Spine alignment components**
Spine alignment positioning components for optimal support and increased seating tolerance.
JAY Fit Back

Improved hardware – adjustable quick mount

The hardware is easy to operate and to adjust, to give the back an optimal support.

- The hardware is easy and fast to mount and adjust
- The hardware includes different collars to cope with several tube diameters and ensure compatibility
- Brackets come pre-mounted to the shell to facilitate mounting and reduce time
- Crash tested & Transit approved

Innovative cover technology

- JAY Fit Back comes with a microclimatic cover and a soft foam underneath for maximum comfort and user protection.
- 3DX™ spacer fabric vents both heat and moisture and increases air flow
- Machine washable at 60° C and quick to dry
- Proven and approved cover design being used for years in JAY J3 backs
Knowledge for the future

Our STEPS workshops provide greater knowledge, better product awareness, and more understanding for individual requirements to employees in medical and rehabilitation centres, as well as clinic and hospital personal.

For further information on the full specification, options and accessories, please refer to the order form. All information is subject to change without notification. Please consult Sunrise Medical with any queries you may have. If you are visually impaired, this document can be viewed in PDF format at www.SunriseMedical.eu.

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