JAY®

Superior Clinical Seating.

JAY® CUSHION & BACK RANGE

SUNRISE MEDICAL®

Superior Clinical Seating

Seating for mobility demands clinical efficacy, whilst maintaining ease of use for the client. This is why JAY® has always addressed challenges with a spirit of innovation.

Every detail is considered thoroughly, with every aspect committed to sound ergonomic and anatomical principles. This allows us to offer a complete portfolio of solutions that span the continuum of clinical need.

The result is a technological masterpiece combining stability, comfort and postural management with user-friendly design at the highest level.

Comfort

JAY® Basic Cushion

JAY® Soft Combi P Cushion

JAY® Ion Cushion

JAY® Easy Visco Cushion

JAY® Zip Cushion

Skin Protection

JAY® Lite Cushion

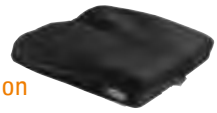
JAY® Easy Fluid Cushion

JAY® Union Cushion

JAY® Xtreme Active Cushion

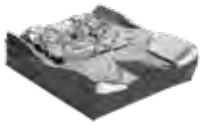
Skin Protection & Positioning

JAY® J2 / JAY® J2 Deep Contour Cushion



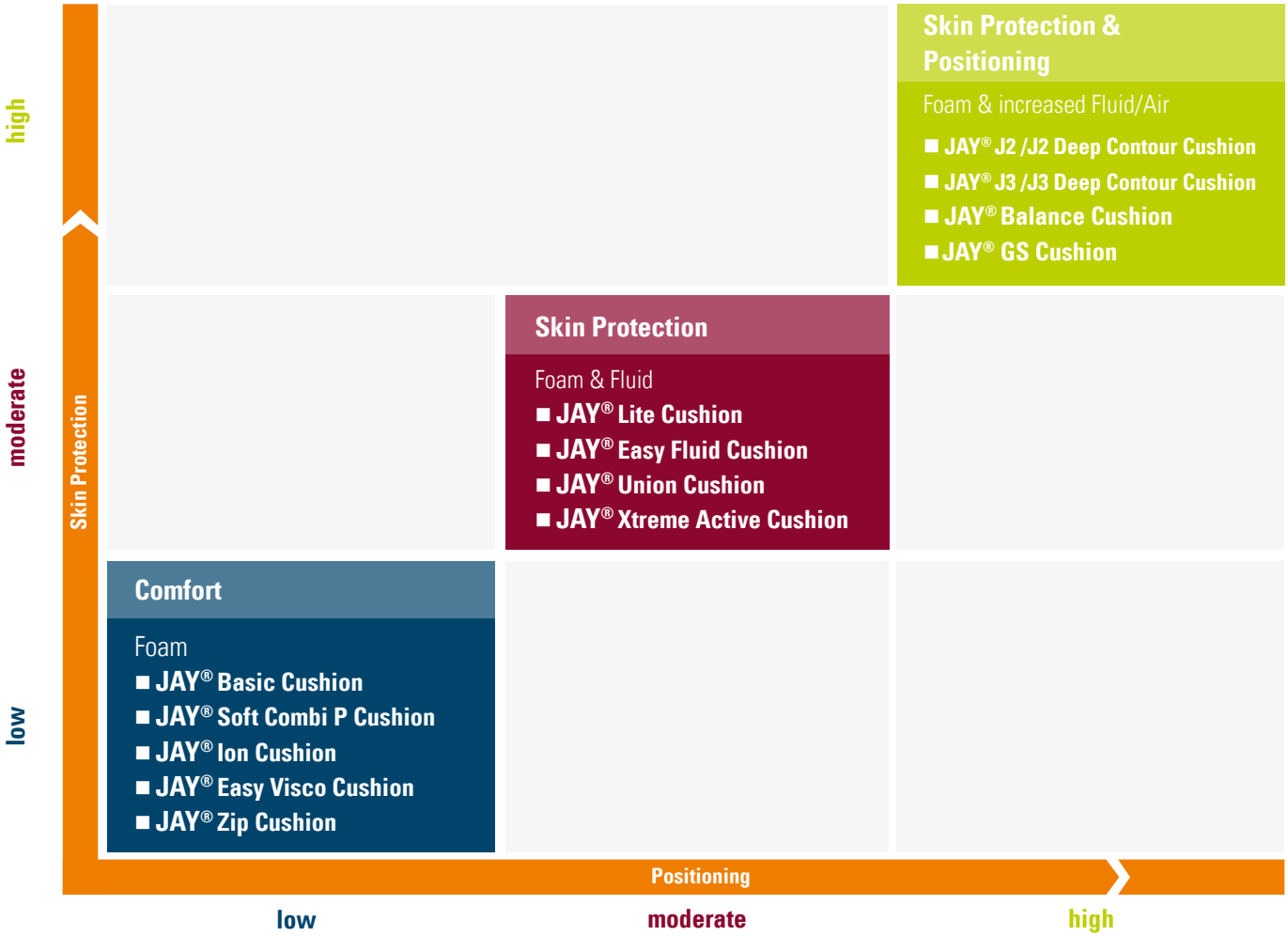
JAY® J3 / JAY® J3 Deep Contour Cushion

JAY® Balance Cushion



JAY® GS Cushion

JAY® Cushion Range



JAY® Cushion and Back Range

Comfort Range

JAY® Basic Cushion	Easy-care comfort	11
JAY® Soft Combi P	Long life comfort and stability	12
JAY® Ion Cushion	Stable, pressure relieving, extremely comfortable with medium skin integrity risk	13
JAY® Easy Visco	Higher level comfort and stability	14
JAY® Zip Cushion	Designed to meet the paediatric client's unique needs	16

Skin Protection Range

JAY® Lite Cushion	Designed for the active client with mild to moderate skin integrity risk	17
JAY® Easy Fluid Cushion	Skin integrity with stability	15
JAY® Union Cushion	The perfect combination of foam and fluid for higher level skin protection, stability and comfort	18
JAY® Xtreme Active Cushion	Increased skin protection for active users	19

Skin Protection & Positioning

JAY® J2/ J2 Deep Contour	Stability and positioning with extreme fluid immersion	20-21
JAY® J3/ J3 Deep Contour	Prescriptive options for complex needs	22-23
JAY® Balance Cushion	Perfect balance between skin protection and stability	24-25
JAY® Balance Cushion	Available with Cryo™ Fluid	26-27
JAY® GS Cushion	Paediatric stability, positioning, skin protection and growth	28
JAY® Accessories	Accessories for the J2/J2 Deep Contour/J3	29

JAY® Backs

JAY® J3 Back	For clients that require a precisely fitted and individually tailored backrest.	30-41
JAY® Easy Back	Provides a stable and ergonomic seating position	42-43
JAY® Fit Back	Modular adjustable contour back, especially designed for children & young adults	44-45
JAY® Zip Back	Designed to meet an active paediatric client's unique ergonomic needs	46

Clinical Performance Factors

The science and clinical application of mobility seating

Pressure

Seat cushion technology and pressure risk management

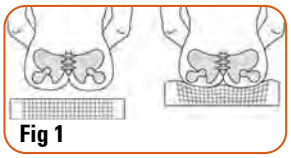


Fig 1

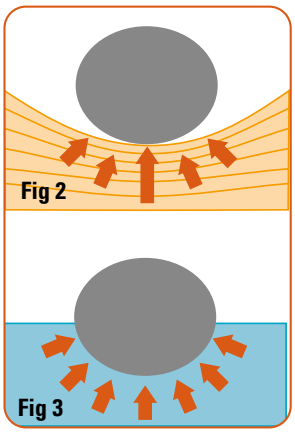


Fig 2

Fig 3

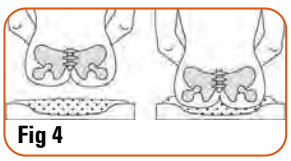


Fig 4

Skin damage from pressure is reduced by

- Spreading mass over largest possible surface contact area
- Shifting load away from bony prominences to areas that can handle load
- Reducing peak pressures on pressure sensitive areas

Materials: Foam, visco foam, gel polymers

- Level of conformity to client shape (Fig 1, Fig 2 varies)
- Provide some pressure redistribution and comfort, depending on individual foam/ gel polymer properties
- Have a reactive counterforce due to foam compression
- Have limited ability to immerse and redistribute pressure

Liquids and gases (Non-Newtonian materials)

- Differ from solids, as the material displaces and fully conforms to the client's shape
- Do not have a reactive counterforce like foam (Fig 3)
- Spread pressure evenly across entire body surface with high conformity to bony prominences (Fig 4)

Surface Tension

- Cushion materials inherently require some sort of container, e.g. foam surface, skin, cushion cover, fluid pack sac
- Flexibility and compliance of the surfaces materials is a key factor in the materials' ability to conform to contours
- For example: a rubber ball filled with water will only displace the water as much as the flexing of the rubber ball will allow.
- Surfaces have to be larger than the underlying material in order to allow compression and displacement.

Bottoming out

- All the advantages of immersion and displacement of the highest pressure care materials will be lost if the ischial tuberosities sink through to the denser base materials
- Clinicians must ensure the pressure distribution materials provide enough thickness and the cushion design is sufficient to suspend the ITs so they do not hit the bottom.

Microclimate: Heat and Humidity

Even with excellent pressure redistribution, skin microclimate (heat and humidity on the skin surface) can be a skin health risk factor.

Seating materials and microclimate

- Foam and gel polymers have low thermal mass, that is, they act as insulators
- Insulators do not dissipate heat well and can hold heat in
- Liquids dissipate heat, but only to a minimal degree in cushions
- Air cushions have a lower thermal mass
- Standard JAY® Fluid has a medium thermal mass
- JAY® Cryo™ Fluid has very low thermal mass and actively assists in pulling heat away from the skin surface

Microclimate and cover materials

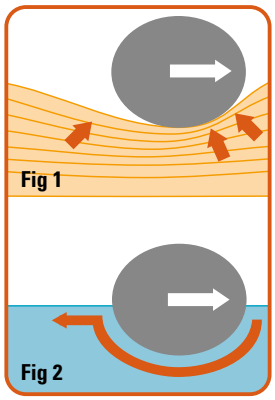
- Rubber and neoprene covers prevent the dissipation of heat
- Wicking covers can help with moisture to a certain extent
- Airflow may be improved with 3D spacer covers to manage heat and humidity
- Clothing is critical. E.g. cotton tends to retain moisture
- Other factors like sweating, incontinence influence cover material suitability

Microclimate management

- Multiple risk levels impact thermoregulation, heat, humidity
- Clients who require assistance to weight shift, have cognitive difficulties or have physiological problems with thermoregulation are at higher risk levels for heat and humidity build up
- Weight shifting is critical not only to pressure care, but also to encourage airflow and manage a client's microclimate
- Foam and gel polymers are more suitable for low to moderate risk clients
- Air inserts, fluid packs may be more suitable for moderate to higher risk clients
- Specialist thermo regulating JAY® Cryo™ Fluid may help the highest risk clients

Shear Reduction

Friction and shear forces present additional risk factors to clients. Transferring or sliding forward creates forces that pull against skin tissues.



Foams, viscos and gel polymers are compressible solids which do not displace (**Fig 1**). This creates a response to the client's horizontal movements which may result in friction and shear in pressure sensitive tissues.

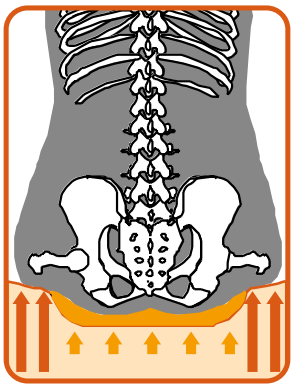
Gases and liquids displace (**Fig 2**), and therefore offer a minimal lateral shear force.

As in pressure redistribution, shear and friction are related to the cover as well as the cushion materials. Tight covers and fluid sacs create surface tension of their own

The key to minimising shear is to provide stability within the seating to prevent unintended sliding, whilst using low shear materials at critical areas. Critical areas are those where sliding is needed for transfers, ADLs or to accommodate movement which cannot be controlled.

Stability

A stable pelvis reduces the shear and friction risk, provides a stable base to free up other body segments for active moment and reduces the risk of postural problems. The amount of contouring and support needed has to be considered in close collaboration with the client, with functional demands for moving on and off the cushion in mind. There are four areas a pelvis that can be stabilised.



Anterior stability

- Pelvic well with adequate depth to immerse the pelvic loading area
- Use of a pelvic positioning belt, at the correct angle, to encourage a neutral pelvic position
- Loading of the thighs with contouring for high levels of surface contact

Posterior stability

- Use of a solid back support for support behind the pelvis
- Consideration of a lower thoracic, lumbar or posterior pelvic insert in the back support to encourage spinal extension and reduce posterior pelvic tilt
- Ensuring the cushion well is not too deep or long for pelvic loading area

Lateral stability

- Pelvic well lateral sizing to support the trochanters to discourage pelvic obliquity
- Hip inserts or contouring to increase surface contact and lateral pelvic control
- Ad and abductor supports at the distal femoral area for indirect lateral pelvic stabilisation

Inferior stability

- Pelvic well sizing correctly matching the client
- Use of a firm seat insert, adjustable canvas or firm foam base for level pelvic orientation
- Accommodation of a fixed pelvic obliquity and correction of a flexible one using shaping underneath the pelvis.

Clinical Performance Factors

Positioning

Personalisation of positioning features is sometimes essential for comfort, support and function for clients with complex or changing needs. JAY® has a spectrum of personalisation options, from a few easy to order components to highly specific prescriptive seating.

Examples of personalisation for positioning

- Carving a cushion base to accommodate limitations in range of movement, lower limb length discrepancies or other needs. This is why the highest level positioning cushions have a firm foam base
- Use of lateral or medial thigh guides to stabilise and support thigh position, increase surface contact
- Use of pelvic obliquity inserts or lateral hip guides
- Over or under-filled fluid pads
- Adjusting backrest hardware for a specific seat to back angle
- Adding personalised JAY® Spine Align components for better matching of anatomy or subtle increase in lateral stability

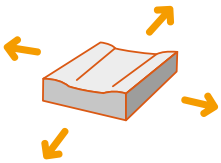
Even JAY® products aimed at comfort needs incorporate ergonomic concepts for positioning in their design such as the use of contouring, having a wide range of sizes and curved base options.

Seating Tolerance

Comfort is subjective, seating tolerance is a more objective measure. It is essential to understand the amount of time the client expects to spend in the chair. Short term users may only be interested in the initial comfort, but longer term users need to assess cushion comfort over a period of several hours.

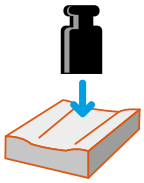
Clients need to balance their comfort perceptions with their stability, pressure distribution, and positioning requirements. A very soft cushion may provide excellent comfort, but will be less stable than one with a firmer base, as well as present a greater risk of bottoming out. High-level positioning cushions may not initially appear as 'comfortable' as a product that does not offer personalisation. Using bespoke positioning components often enables better control of friction, pressure and stability to achieve the comfort needed for long durations of tolerance.

Functional Seating Characteristics



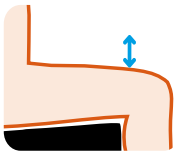
Size Range

Stability, comfort, pressure care and optimal lower limb circulation demand accurate cushion sizing. All JAY® cushions come in a wide range of sizes, please see individual cushion information for details.



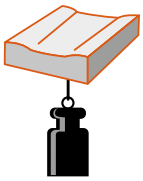
Client Weight

A client needs to be within the maximum user weight stated on the cushion to prevent bottoming out and premature wear.



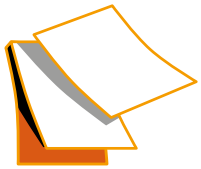
Seat to Floor Height

Seat to floor height of the client on the cushion on the cushion in their chair is important for transfers and environmental access. Active users may request low seat to floor height and low cushion weight, but need to retain pressure reduction and stability. Specialist cushions like the JAY® Easy Fluid or JAY® Xtreme Active may meet these user's needs. However, sometimes a deeper cushion is required to achieve immersion. Altering the wheelchair set-up or prescribing a lower seat to ground height can accomodate the extra depth.



Cushion Weight

This impacts ease of handling, particularly for clients or carers who need to remove the cushion regularly for loading into a vehicle or storage.



Cushion Longevity

Cushions are supplied with a fixed period of guarantee. Factors like intensity of use, user weight and duration of use can impact longevity.

Measuring the JAY® Cushions

Measuring JAY® cushions for the wheelchair is done in the following ways. Please note, dimensions are measured with the cover in situ.

Fig A

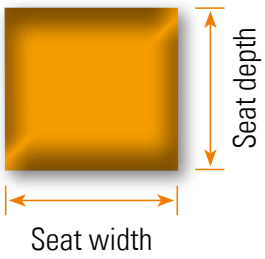


Fig B

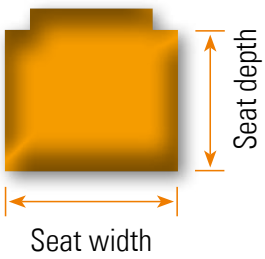


Fig A: JAY® Basic, Soft Combi P, J2, J2 DC, GS

Fig B: JAY® Easy Visco, Easy Fluid, Xtreme Active, Lite, J3, J3 DC, Balance

JAY® Basic Cushion

Long life comfort

Product Features:

- Durable moulded foam, gently contoured for comfort and mild support
- Bevelled base for use with slung upholstery sling
- Incontinence cover
- Low profile, easy maintenance

Clinical Application:

- Clients needing comfort with minimal postural support
- Intact skin integrity or low risk of skin breakdown or shear
- Independent weight shifts and repositioning ability
- Ideal for intermittent wheelchair users
- Suitable for adults and children, with sizes from 250 x 250mm

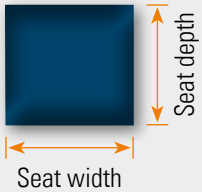
Seating Tolerance

Comfort is subjective, seating tolerance is a more objective measure. It is essential to understand the amount of time the client expects to spend in the chair. Short term users may only be interested in the initial comfort, but longer term users need to assess cushion comfort over a period of several hours.

Depth	Width											
mm	250	300	350	380	400	420	440	460	480	500	560	600
250	■	■										
300	■	■	■									
350		■	■									
400			■	■	■	■	■					
420				■	■	■	■	■	■	■		
440				■	■	■	■	■	■			
460			■		■	■	■	■	■	■	■	■
500								■	■	■	■	■
560											■	■
600												■

Height (in mm)		Maximum Height
Front	Rear	
48	47	63

Weight cushion 40 x 40	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.

COMFORT

JAY® Soft Combi P Cushion

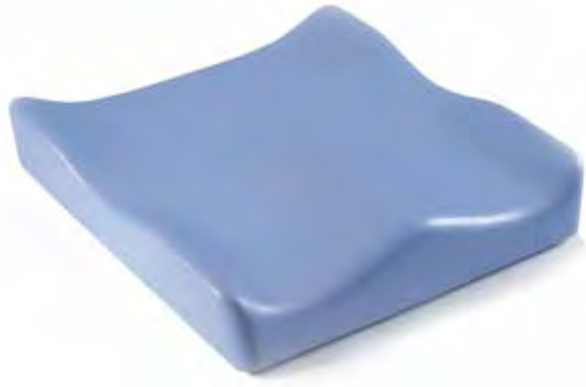
Comfort and Positioning

Product Features:

- Pre-moulded incontinence resistant coated foam base
- Deeper lateral pelvic and thigh contouring
- Easy-clean sealed foam with black incontinence cover
- Flat base
- Option of solid seat insert base
- Available in paediatric sizes

Clinical Application:

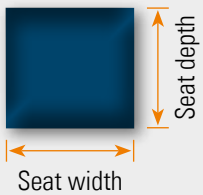
- Designed for clients with symmetrical posture needing minimum to moderate pelvic and thigh support
- Deeper contouring to increase lateral stability as well as moderate forward/rearward stability
- Clients at low risk of skin breakdown
- Clients who can perform independent weight shifts
- Suitable for adults and children, with sizes from 250 x 250mm



Depth	Width											
mm	250	300	350	380	400	420	440	460	480	500	560	600
250	■	■										
300	■	■	■									
350		■	■									
400			■	■	■	■	■					
420				■	■	■	■	■	■	■		
440				■	■	■	■	■	■			
460			■		■	■	■	■	■	■	■	■
500								■	■	■	■	■
560											■	■
600												■

Height (in mm)		Maximum Height
Front	Rear	
59	44	77

Weight cushion 40x40cm	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.

JAY® Ion Cushion

Medium skin protection cushion
providing stability and comfort with low maintenance

Product Features:

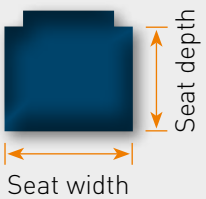
- Lightweight, pre-contoured, multi-layered foam base provide excellent stability for the pelvis and thighs
- Viscoelastic top layer provides enhanced skin protection by increasing immersion and surface contact to spread pressure broadly whilst also preventing excessive heat build up
- Two way stretch 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 minimal 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
- Clients who require a subjectively comfortable, vibration-reducing cushion

Depth	Width										
mm	340	380	400	420	440	460	500	520	540	560	600
380	■	■	■	■	■						
400	■	■	■	■	■	■	■				
420	■	■	■	■	■	■	■				
440	■	■	■	■	■	■	■	■	■		
460	■	■	■	■	■	■	■	■	■		
500		■	■	■	■	■	■	■	■	■	■
520		■	■	■	■	■	■	■	■	■	■
540		■	■	■	■	■	■	■	■	■	■
560			■	■	■	■	■	■	■	■	■
600				■	■	■	■	■	■	■	■
620					■	■	■	■	■	■	■

Max. Height (standard)	100 mm
Weight cushion 440 x 460 mm	1.6 kg
Max. user weight	136 kg (width 340 - 540 mm) 227 kg (width 560 - 600 mm)
Guarantee	2 years



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

COMFORT

JAY® Easy Visco Cushion

Low profile coccygeal area relief and vibration dampening with stability

Product Features:

- Lightweight pre-contoured foam with medial and lateral thigh support
- Viscoelastic foam in the seat well for load distribution to the femurs
- Pelvic well viscoelastic foam layer for immersion with stability seat rail notches
- Curved or flat base for use with solid or sling seat
- Incontinence cover as standard, option for microclimatic cover
- Solid seat base insert option
- Notching for coccygeal area pressure relief

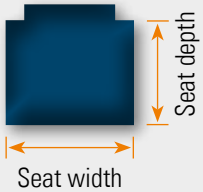
Clinical Application:

- Clients with relatively symmetrical posture and minimal postural suppport 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
- Clients who can perform independent weight shifts and who sit for longer periods in a wheelchair
- Clients with tailbone discomfort
- Low profile vibration dampening

Depth	Width											
mm	250	300	350	380	400	420	440	460	480	500	560	600
250	■	■										
300	■	■	■									
350		■	■									
400			■	■	■	■	■					
420				■	■	■	■	■	■	■		
440				■	■	■	■	■	■			
460			■		■	■	■	■	■	■	■	■
500								■	■	■	■	■
560											■	■
600												■

Height (in mm)		Maximum Height
Front	Rear	
63	60	88

Weight cushion 40x40	1.06 kg
Max. user weight	150 kg
Guarantee	2 years



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

JAY® Easy Fluid Cushion

Low profile skin protection with stability

Product Features:

- Lightweight precontoured foam base with sacral and seat rail notches
- Built-in medial and lateral thigh support promotes optimal thigh positioning
- Choice of curved or flat base for use with solid or sling seat
- Solid seat base insert option
- Sacral and seat rail notches to allow optimal placement of the fluid pad under the client's buttocks

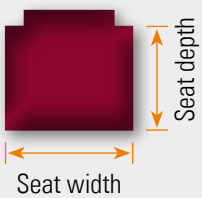
Clinical Application:

- Client with symmetrical to mild asymmetrical posture and moderate postural support requirements
- Provides moderate lateral stability as well as moderate forward/rearward stability
- Moderate/high risk of skin breakdown and shear
- Independent weight shift
- Children who require fluid pad for immersion, shear control, with sizes from 250 x 250 mm

Depth	Width											
mm	250	300	350	380	400	420	440	460	480	500	560	600
250	■	■										
300	■	■	■									
350		■	■									
400			■	■	■	■	■					
420				■	■	■	■	■	■	■		
440				■	■	■	■	■	■			
460			■		■	■	■	■	■	■	■	■
500								■	■	■	■	■
560											■	■
600												■

Height (in mm)		Maximum Height
Front	Rear	
63	60	88

Weight cushion 40x40cm	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.

COMFORT

JAY® Zip Cushion

A comfortable, clinically effective cushion designed uniquely for kids

Product Features:

- Dual layered foam with visroelastic top layer for comfort, immersion
- Soft and stretchable outer cover; 3DX™ fabric spacer underneath promotes air movement
- Outer cover available in pink, blue and black
- Stretchable water resistant inner cover is easy to wipe off

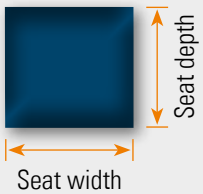
Clinical Application:

- The JAY® Zip cushion is designed to meet a child's unique needs
- Provides minimal lateral stability and forward/rearward stability
- Children with low to risk of skin breakdown
- Independent weight shifts
- Vibration reduction, in paediatric sizes

Depth	Width										
mm	200	220	240	260	280	300	320	340	360	380	400
200	■	■									
220	■	■	■								
240	■	■	■	■							
260	■	■	■	■	■						
280		■	■	■	■	■					
300			■	■	■	■					
320				■	■	■	■				
340					■	■	■	■			
360					■	■	■	■	■	■	
380						■	■	■	■	■	■
400							■	■	■	■	■
420								■	■	■	■
440									■	■	■
460									■	■	■

Height (in mm)		Maximum Height
Front	Rear	
50	45	60

Weight cushion 30x30cm	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.

JAY® Lite Cushion

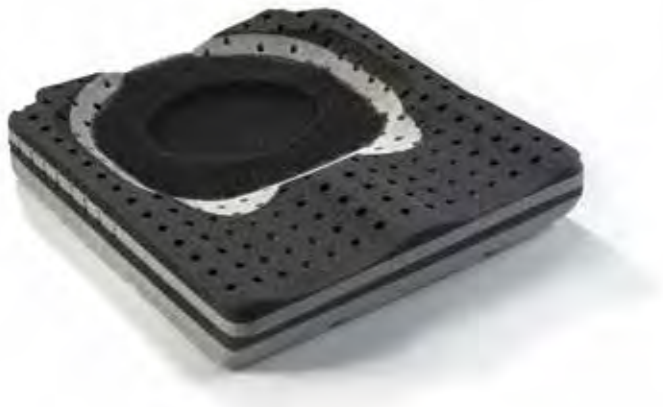
Breathable minimal weight solution for active clients

Product Features:

- Extremely lightweight, breathable
- Perforated base is easy for clinicians to carve for personalisation
- Excellent lateral and forward/rearward stability achieved via combination of Optiwell™ technology and multiplying density foam layering
- Optiwell™ technology based on anthropometric date, ischial cut-outs and scooped foam in Pelvic Loading Area (PLA) effectively redistributes pressure away from bony prominences
- Microclimatic cover with 3DX™ spacer fabric for heat and moisture dissipation and enhanced comfort

Clinical Application:

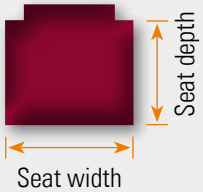
- Moderate lateral and forward/ rearward stability
- Minimal to moderate risk of skin breakdown
- Able to perform independent weight shifts
- Requires heat and moisture dissipation
- Clients with symmetrical to moderately asymmetrical positioning needs
- Extremely lightweight option for ease of management



Depth	Width									
mm	350	380	400	420	440	460	480	500	560	600
350	■									
380		■	■	■	■					
400	■	■	■	■	■	■	■	■		
420		■	■	■	■	■	■			
440		■	■	■	■	■	■			
460	■	■	■	■	■	■	■	■	■	■
500			■			■	■	■	■	■
560									■	■
600										■

Height (in mm)		Maximum Height
Front	Rear	
80	80	95

Weight cushion 40x40cm	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.

JAY® Union Cushion

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

Product Features:

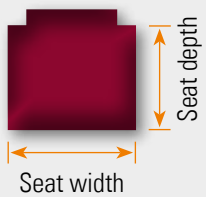
- Viscoelastic top layer for comfort, vibration dampening and immersion
- Memgel™ infused visco elastic top layer assists cooling by reducing heat retention
- Lightweight, multi-layered foam providing stability for the pelvis and thighs
- Integral JAY® fluid pad for immersion and skin protection by dynamically contouring around the pelvis
- Two way stretch Dartex inner cover is water and easy to clean. The Aquaguard zipper and anti-wicking thread ensure that the foam base stays dry.
- Microclimatic outer cover with 3DXTM spacer fabric vents heat and moisture
- Available in 2 heights:
  Standard height (110 mm): ideal for powerchair, tilt in space or standard manual chair users
  Reduced height (90 mm): for a low profile solution for ease of transfer

Clinical Application:

- Clients with moderate to high risk of skin breakdown and shear
- Symmetrical or mildly asymmetrical postures at high risk of deterioration
- Clients able to perform a partial or independent weight shift
- Moderate/high risk level; very low maintenance, no kneading or fluid migration

Depth		Width										
	Inches	14	15	16	17	18	19	20	21	22	23	24
Inches	mm	360	380	400	420	440	480	500	520	540	560	600
14	360	■	■	■	■	■						
15	380	■	■	■	■	■	■	■				
16	400	■	■	■	■	■	■	■				
17	420	■	■	■	■	■	■	■	■	■		
18	440	■	■	■	■	■	■	■	■	■		■
19	480		■	■	■	■	■	■	■	■	■	■
20	500		■	■	■	■	■	■	■	■	■	■
21	520				■	■	■	■	■	■	■	■
22	540					■	■	■	■	■	■	■
23	560						■	■	■	■	■	■
24	600							■	■	■	■	■

Max. Height (standard)	110mm
Weight cushion 400 x 440 mm	2.3 kg
Max. user weight	136 kg (width 360 - 540 mm) 227 kg (width 560 - 6-- mm)
Guarantee	2 years



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

JAY®

SKIN PROTECTION

JAY® Xtreme Active Cushion

Superior low profile skin protection for active users

Product Features:

- Lightweight, low profile cushion for active performance and easy transfers
- Two different fluid pad options: the standard fluid pad, and the large fluid pad for advanced muscle atrophy
- Dual cover system to promote air flow and dissipate heat and moisture effectively
- Retrofittable leg support components for bespoke lateral and medial thigh contouring

Clinical Application:

- Active clients 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, higher profile cushion
- Symmetrical or mildly assymetrical posture requiring minimal support

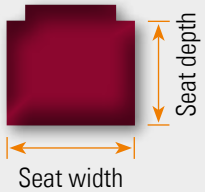
→ Standard fluid pad
With standard base.

→ Large fluid pad
in case of advanced muscle atrophy. It comes with a base with a larger pelvic load area.

Depth	Width								
mm	340	360	380	400	420	440	460	480	500
340	■	■							
360	■	■							
380		■	■	■	■	■			
400		■	■	■	■	■			
420		■	■	■	■	■	■	■	■
440			■	■	■	■	■	■	■
460				■	■	■	■	■	■
480					■	■	■	■	■
500						■	■	■	■

Height (in mm)	Maximum Height
Front	
50	90

Weight cushion 40x40cm	1.7 kg
Max. user weight	150 kg
Guarantee	2 years



JAY® J2 Cushion

Stability and positioning with skin protection

Product Features:

- Proven technology with anatomical well, femoral loading and deep fluid immersion
- Firm foam base is easy to carve for build-ups, cut outs and other personalisations
- Deep JAY® Fluid Tripad for ischial immersion and envelopment
- Extremely wide range of postural support accessories from moderate to very high postural control
- 3DX Microclimatic cover with stretchable neoprene sideband as standard, incontinence resistant cover option
- Optional solid seat base insert

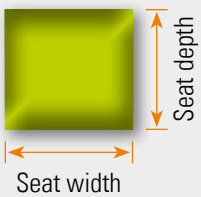
Clinical Application:

- Clients with high risk of skin breakdown and shear
- Designed for clients with symmetrical and asymmetrical postures and needs that change over time
- Clients unable to weight shift; limited postural stability and difficulty with repositioning

Depth	Width					
mm	360	390	430	460	510	610
410						
430						
460						
510						

Height (in mm)		Maximum Height
Front	Rear	
80	80	90

Weight cushion 390 x 410mm	2 kg
Max. user weight	150 kg
Guarantee	2 years



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

JAY® J2 Deep Contour Cushion

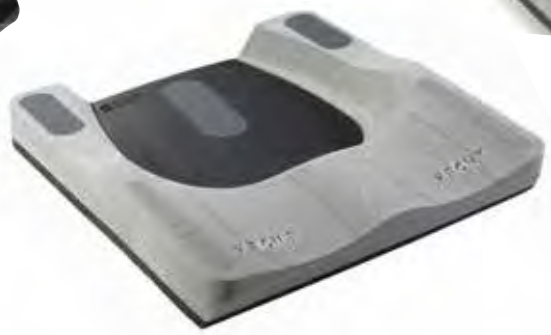
Stability and positioning with extreme skin risk

Features:

- Deep anatomical pelvic well
- Firm foam base is easy to carve for build-ups, cut outs and personalisations
- JAY® Deep Fluid Tripad with soft foam overlay offers market leading immersion
- Wide range of postural support accessories
- 3DX Microclimatic cover with stretchable neoprene sideband as standard, incontinence resistant cover option
- Optional solid seat base insert

Clinical Application:

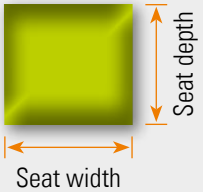
- Designed for the client with very high risk of skin breakdown symmetrical to aggressive postural needs
- Clients with muscle atrophy, pain or other conditions that demand the highest level of pelvic immersion



Depth	Width						
mm	350	380	400	420	450	500	550
350	■						
380		■		■			
400	■		■		■	■	■
420		■		■			
450			■		■	■	■
500			■		■	■	

Height (in mm)		Maximum Height
Front	Rear	
100	100	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.

JAY® J3 Standard and JAY® J3 Deep Contour Cushions

Designed for the client with complex needs

Features:

- Precontoured, carvable, closed cell foam base with Optiwell™ Pelvic Loading Area (PLA) technology based on anthropometric data
- Positive femoral loading to move pressure away from bony pelvic prominences
- JAY® Fluid or Air PLA insert options
- Microclimatic or incontinence cover options, with an integral thick foam comfort layer in the cover
- Highly precise modification possibilities via JAY® Box positioning components or the Built4Me programme

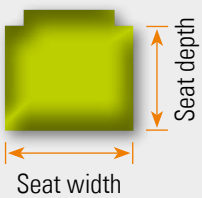
Clinical Application:

- Client at high risk of skin breakdown
- Moderate to aggresive postural needs
- Symmetrical to significant postural needs requiring laterally, forward/rearward stability and/or positioning
- May require partial or full assistance to perform an independent weight shift

Depth	Width										
mm	300	350	380	400	420	440	460	480	500	560	600
300	■	■									
350	■	■									
380		■	■	■	■	■					
400		■	■	■	■	■					
420			■	■	■	■	■	■	■		
440			■	■	■	■	■	■			
460		■		■	■	■	■	■	■	■	■
480					■	■	■	■	■	■	■
500						■	■	■	■	■	■
560										■	■
600										■	■

Max. Height (standard)	95 mm
Max. Height (Deep)	108 mm

Weight cushion 400 x 400mm	1.9 kg
Max. user weight	150 kg (width 30-50cm) 227 kg (width 56-60cm)
Guarantee	2 years

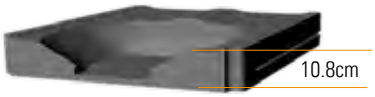


These sizes are available, please see your order form for modifications or special sizes.

Two JAY®J3 cushion contour depth options

Standard contour: High skin risk client

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



Choice of JAY®J3 Fluid or Air technology

JAY® Air Inserts:

Air Single Valve (AS) PLA insert. Also available in an Air Dual Valve (AD) option for assymetric adjustments

JAY® J3 Flow Fluid Inserts:

Factory Filled (FF) PLA insert. Also as Field Variable (FV) available, ideal to assess clients for personalised overfills

The JAY® Air insert is an extremely lightweight option with air technology for high level pressure care.

Different cover options

JAY® J3 offers two cover choices for individual needs: microclimatic and incontinence styles. Both covers feature a reticulated foam comfort layer lining to prevent discomfort or fatique and increase sitting tolerance. The cover is oversized to reduce the surface tension and allow optimal immersion of the pelvis into the PLA insert material. Both covers are machine washable for ease of cleaning.

SKIN PROTECTION & POSITIONING

JAY® Balance Cushion

Skin protection, stability and comfort

The perfect balance between skin protection and stability

Features:

- Pelvic loading area (PLA) with Optiwell™ technology, based on anthropometric data
- Soft, comfortable top foam layer
- Rear wall shaping in PLA to avoid fluid migration
- Three different inserts available:
  Flow™ fluid: Classic JAY® Fluid pad for high level pressure distribution and shear control
  Air insert: Highest level pressure care, lightest weight
  Cryo™ fluid: Assists in skin surface cooling for high level microclimatic management
- Multi chambered, low maintenance fluid pad
- A dual-cover system offers a high degree of skin protection and comfort
- Three cover options: microclimatic, incontinence and stretch
- Positioning kit for stability, postural control
- Easy to order optional pelvic obliquity inserts

Clinical Application:

- Moderate postural needs
- Clients with symmetrical or asymmetrical postures who require increased pelvic stability and lower limb positioning
- Clients at a high or very high skin risk level
- High level of thermoregulation via the Cryo ® Fluid pad option with cooling technology

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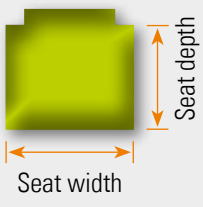
The Multi-Layered, Contoured Foam Base

Depth	Width										
mm	340	360	380	400	420	440	460	480	500	560	600
340	■										
360	■	■	■								
380	■	■	■	■	■	■					
400	■	■	■	■	■	■					
420	■	■	■	■	■	■	■	■	■		
440		■	■	■	■	■	■	■	■		
460		■	■	■	■	■	■	■	■	■	■
480					■	■	■	■	■	■	■
500						■	■	■	■	■	■
560										■	■
600										■	■

Max. Height (standard)	85 mm
Weight cushion 400x460mm	2.4 kg Flow Fluid insert 3.0 kg Cryo Fluid insert 1.9 kg air insert
Max. user weight	150 kg (width 340 - 500mm) 225 kg (width 560 - 600mm)
Guarantee	2 years



Note: Balance with Cryo Fluid only available from 400mm cushion width.
Please see your order form for modifications or special sizes.

JAY® Balance Cushion

with Cryo® Fluid Actively Designed to Keep You Cool.

Easy to order inserts for the perfect balance

The JAY® Balance Cushion comes with three pelvic loading area insert options. This gives clients a tailored cushion to meet their needs in regards to skin protection, stability, and ease of use.

JAY® Flow Fluid pad: The original Balance fluid option, the standard JAY® Balance Flow Fluid pad provides immersion of boney prominences, multi-chambered design to ensure proper fluid placement and shear control. The result is comfortable, high protection level seating.

JAY® Cryo® Fluid pad: This innovative insert option provides one of the highest levels of skin protection on the market today for clients at risk of heat build up, such as powered wheelchair or manual tilt-in-space wheelchair users. Initial studies indicate that Cryo® Technology can cool the skin surface up to 5° C below air, foam or standard JAY® Fluid options. Cooler skin also helps control skin moisture levels, in total reducing skin breakdown risk up to 50%, all without sacrificing pressure or shear concerns.

JAY® Air insert: The JAY® Balance Cushion Air insert provides the pressure care advantages of air with the positioning and stability of foam. The extremely light Air Insert gives the highest level of pressure protection, allowing bony areas of the pelvis to float on a dynamic air surface. At the same time, the multi-density foam base loads under the femurs to move pressure away from high risk areas and allow personalisation of cushion contouring.

Easy to order positioning components for the perfect balance

All JAY® Balance pelvic loading area insert options are compatible with the positioning components. These include a set of moderate hip and thigh guides (adductors) and medial thigh support (abductor) as well as obliquity inserts that can be built up between 100 and 200mm for precise support positioned for many clinical applications.

The Stretch Dartex inner cover is water-resistant and easy to wipe off, with an aqua-guard zipper and self sealing thread to ensure that the foam base stays dry.

The JAY® Balance Cushion is available with a microclimatic outer cover to dissipate heat and moisture, with the option of an outer stretch cover or incontinent cover. All covers are machine washable at 60°C and quick to dry.

CRYO FLUID

JAY Balance

JAY® Balance Cushion with Cryo™ Technology

Actively Designed to Keep You Cool.

JAY® Balance with Cryo™ Technology

Introducing Cryo™ Fluid, the new revolutionary fluid option available for the JAY® Balance cushion that excels at reducing the risk of pressure injuries. Patent-pending Cryo™ Fluid is now being offered alongside industry favorite, JAY® Flow™ Fluid, to provide your patients with more options for skin protection.

Cryo™ Fluid actively cools a patient's seated skin surface for up to 8 hours* while evenly distributing pressure, reducing shear, and lowering the risk of moisture.

ACTIVE COOLING

Heat leaves skin surface, cooling the skin

THERAPEUTIC 8 HOURS EFFECT

Long lasting effect

CRYO FLUID

mobility product award 2020

JAY Balance

Features:

Innovative Design Tecnology

- X-STATIC® stretch outer cover reduces tension and resists bacterial growth
- JAY® CryoFluid insert is designed for skin protection, actively lowers the skin temperature and evenly distributes pressure
- Dartex inner cover with AquaGuard® moisture resistant zipper and anti-wicking thread for moisture protection

Simple to Fit

- Pelvic Loading Area (PLA) well and insert sized around anthropometric data, specific for each cushion width
- Pre-contoured foam base with high-resiliency posterior pelvic wall design encourages orthopedic alignment
- The Cryo™ FLuid PLA insert is divided into five chambers, the two chambers under the ischial tuberosities (ITs) include CryoFluid and the other threechambers include industry favorite , JAY® Flow™ Fluid

Clinical Application:

- High level of thermoregulation via the Cryo™ Fluid pad option with cooling technology
- Clients who spend long times in their wheelchair daily
- Moderate postural needs
- Clients with symmetrical or asymmetrical postures who require increased pelvic stability and lower limb positioning
- Clients at a high or very high skin risk level

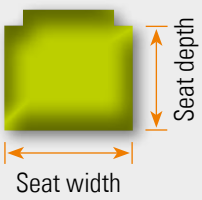
CRYO FLUID

mobility product award 2020

JAY® Cryro™ Insert

Depth	Width										
mm	340	360	380	400	420	440	460	480	500	560	600
340	■										
360	■	■	■								
380	■	■	■	■	■	■					
400	■	■	■	■	■	■					
420	■	■	■	■	■	■	■	■	■		
440		■	■	■	■	■	■	■	■		
460		■	■	■	■	■	■	■	■	■	■
480					■	■	■	■	■	■	■
500						■	■	■	■	■	■
560										■	■
600										■	■

Max. Height (standard)	85 mm
Weight cushion 400x460mm	2.4 kg Flow Fluid insert 3.0 kg Cryo Fluid insert 1.9 kg air insert
Max. user weight	150 kg (width 340 - 500mm) 225 kg (width 560 - 600mm)
Guarantee	2 years



Note: Balance with Cryo Fluid only available from 400mm cushion width.
Please see your order form for modifications or special sizes.

JAY® GS Cushion

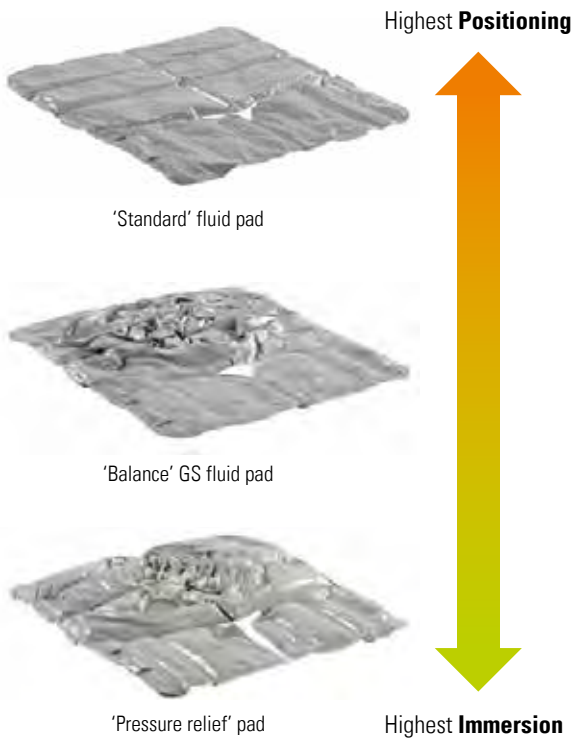
Designed for the paediatric client with moderate to high postural needs

Features:

- A lightweight carveable firm foam base with growth capability via well inserts and a wide range of postural support
- Contracutre cuts to accommodate tight hamstrings
- JAY® Flow™ Fluid pad
- Three fluid pad fill options to tailer the level of immersion into the cushion to the individual child
- Incontinence resistant cover as standard, oversized cover for the use of positioning components or air exchange options

Clinical Application:

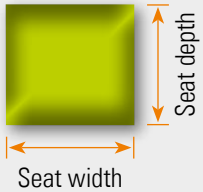
- For clients who require a firm postural base and moderate to aggressive postural control
- Clients with symmetrical or asymmetrical postures
- Children with changing needs
- Designed to grow with the child



Depth	Width				
mm	250	310	360	410	460
330					
380					
430					
480					
510					

Height (in mm)		Maximum Height
Front	Rear	
80	75	90

Weight cushion 25x33cm	0.6 kg
Max. user weight	113 kg
Guarantee	2 years



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

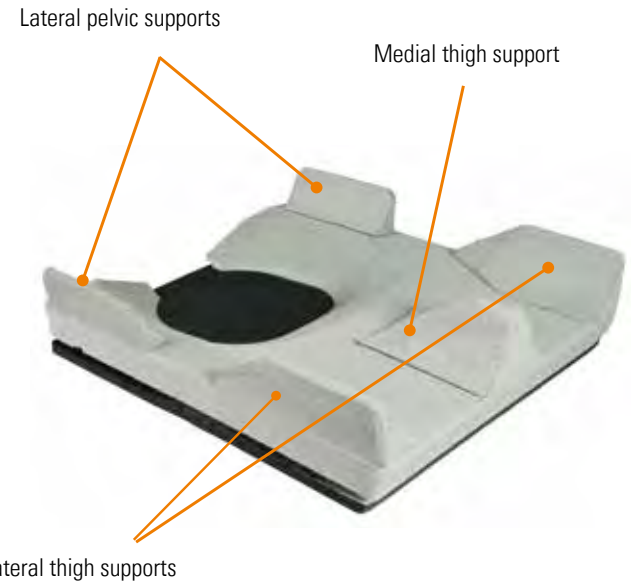
JAY® Accessories

Personalisation for JAY® J2, JAY® J2 Deep Contour and JAY® J3 cushions

Personalisation is a core principle of JAY® Clinical Seating. JAY® Lite, JAY® J2/ J2 Deep Contour and JAY® J3 cushions have carveable firm foam bases, offering excellent positioning possibilities. Cutting and/or carving the base will not damage the structural integrity of the closed cell foam base. Additionally, the JAY® Box offers moderate to aggressive modular postural support components, including:

- Lateral thigh supports
- Medial thigh supports
- Lateral pelvic supports
- Pelvic obliquity wedges
- Mini fluid pad insert
- Solid seat

JAY® J2/ J2 Deep Contour accessories



Base carving not quite right? No problem, we offer a free one-time film base foam replacement.

JAY J3

JAY® J3 Back Range

The JAY® J3 backrest offers the widest range of sizes, shapes and options for clients that require a precisely fitted and individually tailored backrest. Suitable for moderate to high positioning

- Ability to personalise to the individual
- Provides a precise fit for client size, function, and postural support needs
- Lightweight design, ideal for active manual chair users or carers
- Easy to fit two-point highly adjustable mounting hardware

JAY® J3 Backs

Contours

Four contour depths

The JAY® J3 Back offers 4 types of contour depths:

- Shallow Contour (SC), with 50 mm depth
- Mid Contour (MC) with 80 mm depth
- Deep Contour (DC) & Mid Deep Contour (MDC) with 150 mm depth
- An Extra Deep version is available on DC and MDC contours with 180mm depth, in some sizes

Shallow Contour
Moderate lateral support

50 mm

Mid Contour
Medium lateral support

80 mm

Deep Contour
Full lateral support

150 mm

Mid Deep Contour
Full lateral support

150 mm

Deep Contour, Extra Deep
Full lateral support

180 mm

Mid Deep Contour, Extra Deep
Full lateral support

180 mm

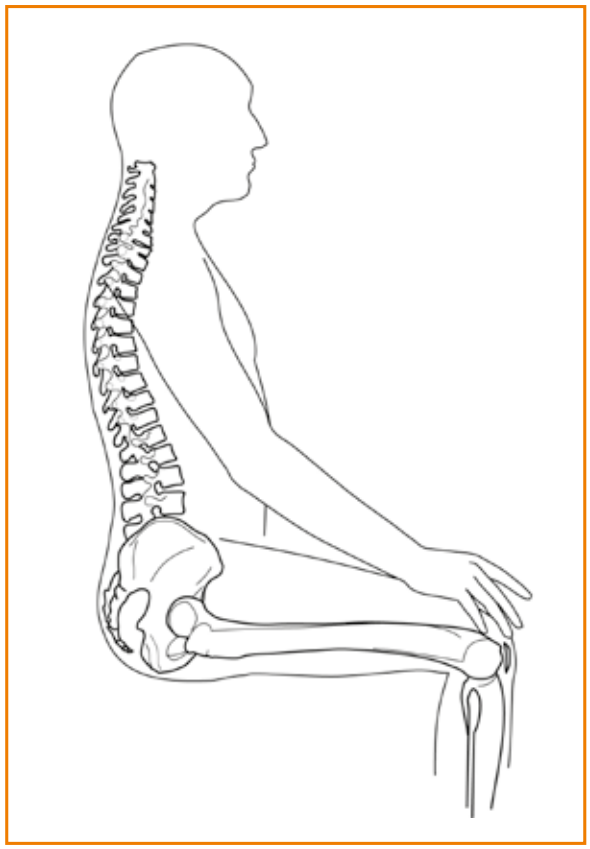
JAY® J3 Backs

Level of support

Four levels of support

Clients can choose between 4 different levels of support depending on their level of trunk stability, physical presentation and functional needs.

Shoulder Height	(SH)	530 - 610 mm
Upper Thoracic Height	(UT)	420 - 500 mm
Mid Thoracic Height	(MT)	300 - 380 mm
Lower Thoracic Height	(LT)	170 - 240 mm



Three individual heights within each level

JAY® J3 backs allow a precise fit. This is why each support level is available in 3 different individual heights, for a total of 12 height options.

Short (S)

Medium (M)

Tall (T)

JAY® J3 Backs

Range overview

J3 Back range overview

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

	Shallow Contour (SC)	Mid Contour (MC)	Deep Contour (DC)	Mid Deep Contour (MDC)
Lower thoracic (LT)	■			■
Mid thoracic (MT)	■	■		■
	Laterals, headrest and harnesses available for SC, MC, DC, MDC			
Upper thoracic (UT)	■	■	■	■
	Laterals, headrest and harnesses available for SC, MC, DC, MDC			
Shoulder height (SH)	■	■	■	■
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

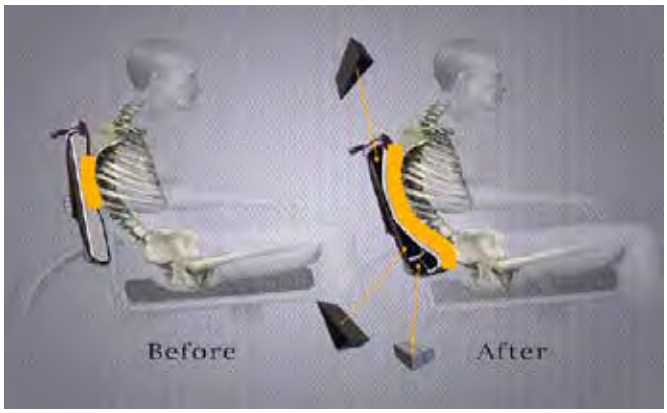
JAY® J3 Backs

Spine align system

Versatile, easy to fit shaping components

Spine Align Kit

- Correction accommodation of mild to moderate postural deformity
- Maximise surface contact for pressure distribution ares
- Create relief areas
- Provide a neat option, fitting under back foam
- Personalise to match body shape for postursal stability and comfort



Different kits available, 7, 12 or 36 pcs.

JAY® J3 Backs – Hardware

Ease of use – JAY® Mounting Hardware

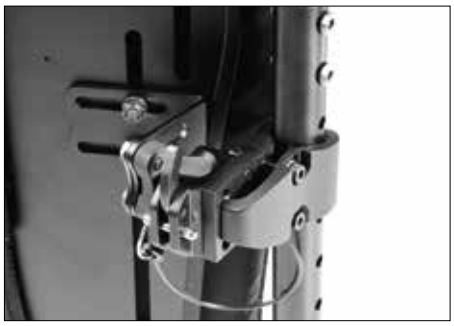
The JAY® mounting hardware is easy to fit, easy to remove, compact in size and packed with adjustments in width, depth, height, depth and angle. You can even adjust the back with the client in the chair.

Hardware Mounting Location

The unique attachment of the J3 compact mounting hardware occupies as little space as possible on back posts. This creates a market-leading level of compatibility around armrests, horizontal frame bars and other obstructions.

Multi-Tubing Compatibility

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



Compact Mounting Hardware
Lightware and hardware option, comes standard on LT and MT height backs.

Heavy Duty Compact Mounting Hardware
Ideal for heavy users, or those with strong tone patterns, comes as standard with UT and SH.

Angle Adjustment
The JAY® mounting hardware offers up to 22° of angle adjustment for precise contact, and minimal to no loss in seath depth.

Width Adjustment

J3 backs fit the client and the chair, with up to 50 mm of built-in width adjustment.

JAY® J3 Backs – Headrests and Accessories

Headrests and Accessories

JAY® J3 Backs are compatible with the entire range of clinically proven Whitmyer headrests accessories. The most popular headrest and mounting options are directly on the order form for ease of prescription. Other accessories allow J3 personalisation for a wide range of postural and functional needs.

WHITMYER®

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)

CRASH TESTED

All J3 backs that can accommodate headrests have been tested and approved for transit against relevant ISO standards

SOPUR QUIC
JAY
MELWAY

J3 Carbon Backs

Feel the difference

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.

JAY® J3 Carbon Back

JAY® J3 Carbon - The support needed to be active

The J3 Carbon back provides excellent stability and comfort. By giving optimal pelvic support, it enables a firm stable trunk posture. This enhances ease of propulsion for an active life, reduces back pain and reduces fatigue throughout the day.

Two different mounting system options

The J3 Carbon back is available with two different mounting systems, an ultra light fixed system for wheelchair users, and a quick-release system which allows the backrest to be removed easily. Regardless of choice, both mounting systems are designed as easy to use, 2-point mounting systems offering the same adjustments in angle, depth, height and width.

The quick release hardware

ideal for folding wheelchairs

The fixed mounting system

the minimum weight solution

Quick & easy to remove

With the optional quick release hardware the backrest is quick and easy to release, ideal for folding chairs.

JAY® J3 Carbon Back

Choose your back!

Four back heights, from 170 to 380 mm, focus on the active user with a need for low to moderate posterior trunk support. The 50 mm contour depth matches the body's natural shape for stability without restriction.

→ **Different support levels**
Always the right support:
four heights from 170 to 380 mm

→ **Active contour**
Mild lateral trunk support
through 50 mm contour depth

Where are the keys?

The new accessory bag not only smartly covers the gap between the back and cushion, it provides easily accessible storage for daily necesseties.

The usefully stylish
accessory bag

JAY® Easy Back

Choose your level of support

The JAY® Easy Back system provides a stable and ergonomic seating position. The JAY® Easy Back offers two different types of contours for trunk stability, depending on client needs.

Shallow Contour:
Mild lateral trunk support

Posterior Deep Contour:
Positive lateral hip support

Different conditions and needs of the client demand accurate solutions. Three different JAY® Easy back accomodate clients with a need for moderate to full posterior support.

Mid Thoracic, 380 mm

Upper Thoracic, 460 mm

Shoulder Height, 530 mm

JAY® Easy Back

JAY® Easy backrest offers simple, comfortable and effective support with a thicker surface foam for greater immersion.

Thick Comfort Foam

JAY® Easy Back comes with a soft foam surface. This cover technology combined with innovative cover technology for maximum comfort and user protection.

- 3DX™ spacer cover fabric increases air flow to dissapate heat and moisture
- 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

Versatile One-step Release Hardware

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

- The JAY® Easy back can be released with only one hand. Pull the cord to unlock the system on both sides, then angle the back and pull up to remove.
- Hardware fits on commonly used back tube sizes: 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

JAY® Fit Back

Improved hardware – adjustable quick mount

- Easy and fast to mount and adjust
- Includes different collars for back post diameters from 19mm to 28.5mm
- Brackets come pre-mounted to the shell to facilitate mounting and reduce time
- Crash tested & Transit approved

Attachment brackets

Snaptite hardware

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 to dissipate heat and moisture
- Machine washable at 60° C and quick to dry

Soft foam

3DX™ microclimatic cover

JAY® Fit Back

JAY® Fit Back – For a child's independence

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

Make it fit – more individuality and personalisation

There are variety of options and accessories available on the JAY® Fit to achieve an optimal fit for the user.

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

JAY® POSITIONING SUPPORTS

Harnesses and positioning belts are offered together with the new JAY® Fit back for an easy-to-order complete postural system.

Whitmyer® Headrest

Provides precise, adjustable head and cervical spine support.

Lateral supports

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

Spine alignment components

For optimal support and increased seating tolerance.

JAY® Zip Back

The JAY® Zip backrest was designed to meet an active paediatric client's unique ergonomic 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 client 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

Quick release

Backrest width:	200 / 250 / 300 / 350 mm	Back angle:	+20° to -20°
Backrest height:	150 / 200 /250 / 300 mm	Width adjustability:	+25 mm
Transport weight:	1,1 kg	Depth adjustability:	70 mm
Max. user weight:	75 kg	Accessories:	Headrest, Lateral support, spine align positioning components, chest strap, vanity flap and spare cover

TSG 1899
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JAY

Knowledge for the future

STEPS
Sunrise Training & Education Programs

Our free STEPS™ workshops help you develop professional clinical skills and match equipment to individual requirements for the best outcomes. We offer courses locally or can schedule them locally for groups. Please see our website on www.sunrisemedical.co.uk/steps-training or email steps@sunmed.co.uk to see what we can do for you.

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.co.uk.

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