JAY CUSHION RANGE
Clinical compromises are not acceptable.

Effectiveness and ease of use are the top priorities.

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

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

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

### Comfort Range

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<thead>
<tr>
<th>Model</th>
<th>Feature</th>
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<tbody>
<tr>
<td>Basic</td>
<td>Long life comfort</td>
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<tr>
<td>Soft Combi P</td>
<td>Long life comfort and stability</td>
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<tr>
<td>Easy Visco</td>
<td>Higher level comfort and stability</td>
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<tr>
<td>Zip</td>
<td>Designed to meet the paediatric client’s unique needs</td>
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### Skin Protection Range

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<tr>
<td>Lite</td>
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<tr>
<td>Easy Fluid</td>
<td>Skin integrity with stability</td>
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</tr>
<tr>
<td>Xtreme Active</td>
<td>Increased skin protection for active users</td>
<td>18</td>
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<td>Care</td>
<td>Elderly care and posture</td>
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### Skin Protection & Positioning

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<td>J2 DC</td>
<td>Stability and positioning with extreme skin integrity risk</td>
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<td>Balance</td>
<td>Perfect balance between skin protection and stability</td>
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<tr>
<td>GS</td>
<td>Paediatric stability, positioning, skin protection and growth</td>
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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 Redistribution)

How can seating redistribute 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 filled fully into a flexible rubber ball will only displace as the rubber flexes.

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 (Ischial Tuberosities).
Humidity and Heat Reduction

Certain clients are more at risk of skin breakdown than others. Excellent pressure distribution 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 high 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 material e.g. cotton increases 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 cannot 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, viscos 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 minimises the risk of “bottoming out”.
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, viscos 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 dependant on the surface tension of the materials. Tight covers and fluid sacs create surface tension of their own!

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.

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 stabilised in optimal AP alignment.

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

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

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 customising 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.

We estimate that 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 wheelchair. 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 maximise seating tolerance it is necessary to optimise pressure redistribution and shear reduction, maximise stability and positioning but also take into account comfort.
Functional Seating Characteristics

Size Range
We offer a lot of sizes, please see the 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 wheelchair is important to ensure 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 Xtreme Active and 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 which is gently contoured for comfort and mild support
- Bevelled base for use with slung upholstery sling
- Incontinence cover as standard

Clinical Application:
- Suitable for adults and children
- 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

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

Clinical Application:
- Suitable for adults and children
- 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

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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.
Easy Visco
Superior high level comfort and positioning with mild pressure redistribution

Product Features:
- Lightweight precontoured foam with medial/lateral thigh support
- Soft moulded elastic visco foam in the seat well to allow greater immersion of the ischial tuberosities (ITs) and distribution of weight to the thighs
- Sacral and seat rail notches to offer added skin protection to sacrum ITs and hips
- Curved or flat base for use with solid or sling seat to maximise the effect of cushion surface
- Incontinence cover as standard with option for microclimatic cover
- Solid seat (as option)
- Flexible spray covering to prevent ingress of liquids

Clinical Application:
- Ideal for semi-active clients or clients with mild symmetrical or asymmetrical posture and moderate postural support who require increased skin protection
- 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

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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 Zip

A comfortable, clinically effective cushion designed uniquely for kids

Product Features:

- Dual layered mildly contoured foam base to enhance comfort but maintain stability
- The Zip has a unique dual cover system with a waterproof inner cover to protect the foam and a breathable, anti-microbial outer cover to improve hygiene and comfort
- Soft and stretchable outer cover; 3DX™ fabric spacer underneath promotes air movement and reduces shear forces
- Outer cover available in pink, blue and black
- Stretchable water resistant inner 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 child’s unique needs
- Provides moderate lateral stability as well as moderate forward/rearward stability
- Paediatrics with low to moderate risk of skin breakdown
- Independent weight shifts

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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.
Lite

Specifically designed for the active client seeking minimal weight and maximal stability

**Product Features:**
- Extremely lightweight, breathable, layered foam base with ischial seat well
- Excellent lateral and forward/rearward stability through a combination of Optiwell™ (seat well) technology ensuring that hips and thighs are supported and ischial bones are accommodated
- 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 and enhanced comfort
- Lightest foam cushion in its class

**Clinical Application:**
- Designed primarily for active users with symmetrical postures who need a lightweight, stable cushion
- Mild to moderate lateral and forward/rearward stability
- Moderate risk of skin breakdown
- Able to perform independent weight shifts
- Clients requiring breathability, heat and moisture dissipation

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**Seat width**

- 40x40cm

- 0.7 kg
- 150 kg
- 2 years

*These sizes are available, please see your order form for modifications or special sizes.*
Easy Fluid
Skin protection with stability

Product Features:
- Lightweight, soft moulded foam base with JAY fluid pad for greater skin protection around the pelvis and hips
- The deeper medial and lateral thigh support increases comfort and thigh positioning
- Choice of curved or flat base for use with solid or sling seat
- Choice of incontinence or microclimatic cover for breathability
- Solid seat (as option)
- Sacral and seat rail notches to allow optimal placement of the fluid pad under the client’s buttocks

Clinical Application:
- Client with symmetrical or 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
- Can be used to correct or accommodate pelvic obliquities

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Weight cushion 40x40cm 1.4 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

Increased skin protection for active users

Product Features:
- A lightweight, low profile cushion with JAY fluid pad which is ideal for active users and easier transfers.
- The cushion offers two different fluid pad options: the standard fluid pad (for moderate to high pressure relief) and the large fluid pad (for higher skin protection needs).
- The dual cover system promotes air flow and dissipates heat and moisture effectively to further increase skin protection.
- Improved thigh positioning can be achieved through retrofittable leg support components.
- A choice of three outer covers: microclimatic, incontinence and stretch, for greater immersion and envelopment into the JAY fluid.

Clinical Application:
- Active clients with moderate to high risk of skin breakdown and shear.
- Clients needing a low height, low profile cushion to enable the most efficient self- propulsion.
- Symmetrical or mildly asymmetrical postures requiring minimal support.
- Can be used to correct or accommodate pelvic asymmetries.
- Clients able to perform a partial or independent weight shift.

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Standard fluid pad
With standard base.

Large fluid pad
A base with a larger pelvic load area, and fluid sac for greater immersion and pressure redistribution around bony prominences of pelvis and hips.

- Height (in cm) | Maximum Height
- Front         | 9
- Weight cushion 40x40 cm | 1.7 kg
- Max. user weight | 150 kg
- Guarantee | 2 years

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

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Weight cushion 41x43cm 2.3 kg
Max. user weight 113 kg
Guarantee 2 years

These sizes are available, please see your order form for modifications or special sizes.
J2
Stability and positioning with skin protection

Product Features:
- Firm base, anatomical seat 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
- Air exchange cover as standard, incontinence resistant cover and solid seat are options
- 3DX Microclimatic cover with stretchable neoprene sideband as standard, incontinence resistant cover and solid seat are options

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 unable to reposition

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These sizes are available, please see your order form for modifications or special sizes.
J2 Deep Contour
Stability and positioning with extreme skin risk

Features:
- Firm base; anatomical seat well
- Carveable base for build-ups, cut outs and customisation
- JAY Deep Fluid Tripad with soft foam overlay for deeper immersion and envelopment
- Wide range of postural support accessories
- Air exchange cover as standard, incontinence resistant cover and solid seat inserts are options

Clinical Application:
- Designed for the client with very high risk of skin breakdown and with symmetrical or asymmetrical postures
- Clients unable to weight shift or reposition

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Weight cushion 41x41 cm. 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.
Balance
Skin protection, stability and comfort

The perfect balance between skin protection and stability

Features:

- JAY Balance’s well or Pelvic Loading Area (PLA) is based on anthropometric measurements of the average pelvic bone width. The PLA size will automatically correspond to the cushion width to ensure maximal pelvic stability.

- Soft polyurethane foam overlay gently supports the trochanters and thighs. Provides extra protection to the ischial bones in situations where there is loading onto the front well wall.

- New rear well wall and steeper front wall have been designed to prevent fluid migration.

- The JAY Balance may be ordered with a JAY Flow Fluid or Roho Air insert.

- Three different covers available: microclimatic, incontinence and stretch.

Clinical Application:

- Suitable for clients at high risk of skin breakdown and shear e.g. elderly users or clients with MS, stroke, Muscular Dystrophy, Motor Neurone disease and other neurological conditions.

- Clients with symmetrical or asymmetrical postures who require increased pelvic stability and lower limb positioning.

- Clients who are unable to pressure relieve or reposition themselves.

The Multi-Layered, Contoured Foam Base

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Max. Height (standard) | 8.5 cm
Weight cushion | 40x46cm
Max. user weight | 150 kg (width 34-50cm)

Guarantee | 2 years
Weight fluid insert | 2.4 kg
Weight air insert | 1.9 kg
Max. user weight | 225 kg (width 56-60cm)
The field-adjustable positioning components

With the optional positioning components the pelvis and thighs can be properly positioned for optimal orthopaedic alignment, increased sitting tolerance and accommodates the user’s changing needs.

JAY Flow Fluid™ or ROHO Dry Floatation™ Air Inserts

The Balance may be ordered with JAY Flow fluid or ROHO air inserts, which conform to each individual’s shape, and ensure fluid placement underneath bony prominences to help protect the skin from breakdown. The pads can be used to correct or accommodate pelvic asymmetries.

Innovative, Dual-Cover System

The Balance cushion features a dual-cover system.

The inner cover is two-way stretch dartex fabric, water resistant and easy to clean. The Aqua-guard zipper and antiwicking thread ensure that the foam base stays dry.

The microclimatic outer cover dissipates heat and moisture for additional skin protection. The Balance is also available with an incontinence cover or stretch cover for greater immersion and pressure relief. All covers are machine washable at 60°C and quick to dry.

The perfect balance between skin protection and stability
J3 Standard and Deep Contour Cushion
Designed for the client with complex needs

Features:
- Precontoured, carvable, closed cell foam base
- Two contour depths versions: standard or deep
- Optiwell™ technology i.e. anthropometrically designed Pelvic Loading Area (PLA)
- The choice of Fluid or Air PLA inserts
- Microclimatic or incontinence cover options. Comfort layer is integral to cover
- Modification possibilities

Clinical Application:
- Clients at high (standard cushion) to very high (deep contour cushion) risk of skin breakdown with or without pelvic and thigh asymmetries
- Clients requiring greater lateral, forward/rearward stability and/or positioning components
- Clients unable to reposition or perform an independent weight shift

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Max. Height (standard) 9.5 cm
Max. Height (Deep) 10.8 cm

Weight cushion 40x40cm 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.
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, stability and minimal maintenance are priorities.

**Roho® Air Inserts:**  
Air Single Valve (AS) PLA insert. Also as Air Dual Valve (AD) to correct or accommodate pelvic asymmetries

The air insert is the optimal choice when correcting changing pelvic positions or a lighter weight solution is desired.

Different cover options

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

The reticulated foam comfort layer within the 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.
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.

A 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. Bevelled front edge to accommodate tight hamstrings
- Choice of JAY Flow fluid pads; standard, balance and pressure relief
- For added skin protection there is a pressure relief pad with more fluid
- Incontinence resistant cover as standard (air exchange cover as option)
- Wide range of retrofittable positioning components to easily customise the cushion to meet specific needs

Clinical Application:
- Designed for the client with symmetrical and asymmetrical postures who require correction or accommodation
- Clients unable to weight shift; limited postural stability and unable to reposition
- Designed to grow with the child (1 to 3 growth ratio)

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Height (in cm) | Maximum Height (cm) |
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Weight cushion 25x33cm 0.6 kg
Max. user weight 150 kg
Guarantee 2 years

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