

R82[®]

R82 x:panda

Evolution - Improving perfection

Reimagining the seating experience

Individuals, families and specialists worldwide enjoy the multiple configurations of the x:panda and its variety of features and accessories. A life-enhancing seat developed to establish an ideal seating position for children and youngsters living with mobility impairment, helping them to play and engage in activities that thereby develop their skills.

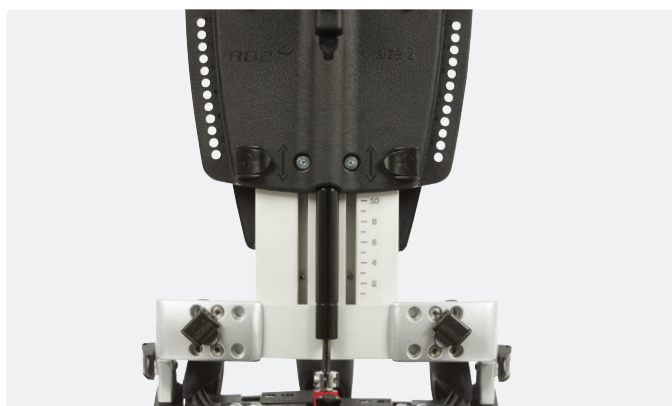
Perfection and Improving daily living

Available in four sizes, x:panda is a highly adaptable modular seating system that can be configured to meet a range of postural requirements and to accommodate growth.

We have designed the seat so users, families and specialists can enjoy the features: the perfect seat with armrests, fixed wedges, visual markings, cushions and covers. Also the features such as the dynamic back, back recline, multi-

adjustability and accessories contribute to a wide array of positioning options. When a child enjoys seating comfort and ideal positioning, this not only benefits the child clinically, but it also encourages skill development and meaningful engagement with peers.

For parents, caregivers and specialists, the x:panda improves tasks of daily living.



Added benefits

For most children and youngsters, a good comfortable seating position can have a positive impact on muscle tone and facilitates the child's ability to perform movements with their upper extremities and head. A range of different features and functions have been developed to create the best possible adaptable sitting position according to individual users' seating needs.

Head support

A wide selection of head supports and fittings provide many opportunities for individual support when resting or active.

Vests & belts

The 16 fix locks on the back and seat of the x:panda make it possible to mount vests and belts.

Fixed or swing-away side supports

The swing-away or fixed side supports are chosen based on the child's trunk control and their ability to perform arm movements. The side supports can be fixed with a snap lock to allow for daily adjustment of the distance between the side supports.

Armrests & covers

The click and remove snap system enables one to easily fit and remove the armrests. The markings help ensure the armrests are repositioned at the same height after removing them. Covers can be added to the armrests.

Covers

Durable and comfortable covers for side supports, abductors and adductors are also available.

Lateral & medial knee supports

The lateral and medial knee supports allows a position between 0 and 15 degrees of abduction in the hip joints.

Cushions

The cushions are made of a one-piece comfortable seat and back cushion solution without stitching in the middle. They have an extra layer of foam for improved pressure relief.

Frames

The x:panda fits on a variety of frames for indoor or outdoor use. The max load of the seat and frame for ordinary use and for transportation can be found in our comprehensive guide on the website.

Foot supports

There are a number of different foot supports that can be mounted on the frames used for the x:panda.



Armrests

The click and remove snap system, and repositioning of the armrest is easy to use for parents and caregivers in situations where easy access to the child is needed. The position of the armrest can be reset by using the memory function. This ensures that the armrest can be repositioned at the same height again after removing it. The armrest maintains position due to the offset fastening knob and provides stable support for the tray, which can be mounted on it, allowing the child to have toys and learning material close by. Covers for the armrests are available as accessories.



The evolution of the armrests have:

- Improved stability
- Memory function
- Click and remove snap system
- Daily adjustment knob
- Comfortable and durable covers for armrests



Armrests with click & move snap system demonstrated



Fixed Wedges

The fixed wedges are used to create a seat pit. Without support, the pelvis can tilt backwards when the child seeks stability. The fixed wedges are stable and prevent unintended wedge positioning. The wedges stay in place when the cushions are removed. The seat wedges are available in eight sizes. For further customisation, the fixed wedges have perforation marks that make them easy to cut for resizing for the desired fit.



Visual markings

The x:panda can accommodate complex requirements and provide the child with a reliable and durable positioning. For easier use and recognition for parents, caregivers and specialists, x:panda has visual markings on the outer and inner surface of the backrest, as well as on the seat surface.



Backrest - Outer surface

These visual markings can be used to recreate the back height setting for easier use and recognition.



Backrest - outer surface

These visual markings help identify backrest size, as well as recognition of where to mount accessories such as side supports or upper arm supports.



Backrest - inner surface

These visual markings help identify the backrest size and where to adjust the back height.



Seat surface

When adjusting for growth adaptation, visual markings have also been placed on the seat surface for easy recognition during depth and width adjustment.



Go to video with seat mount, seat depth, wedge mount and back height demonstrated

Layers of comfort

The cushions consist of two layers of foam: foam in the cushion itself, as well as an extra layer of foam sewn onto the cover. This helps improve pressure distribution and improves comfort for the user. Pressure mapping was used when designing the two layer solution. Read more about our results below.

Edge piping

The piping of the cushion covers gives stability and strengthens the edges.

Outer fabric

The outer fabric is durable and breathable. It comes in 5 colours: black, pink, red, blue and lime green.

Fluid blockage

Durable and breathable outer fabric with medical grade fluid blocker.

Foam

High quality fire retardant foam.

Micro velcro grip

Micro velcro added for optimised fixation of all seat cushions.

Cushion quick fix

For easy fitting or removal of the cushion to and from the seat.

Flex edging

The covers have durable flex edging that make the cushion retain its shape.

Perfect fit wedge

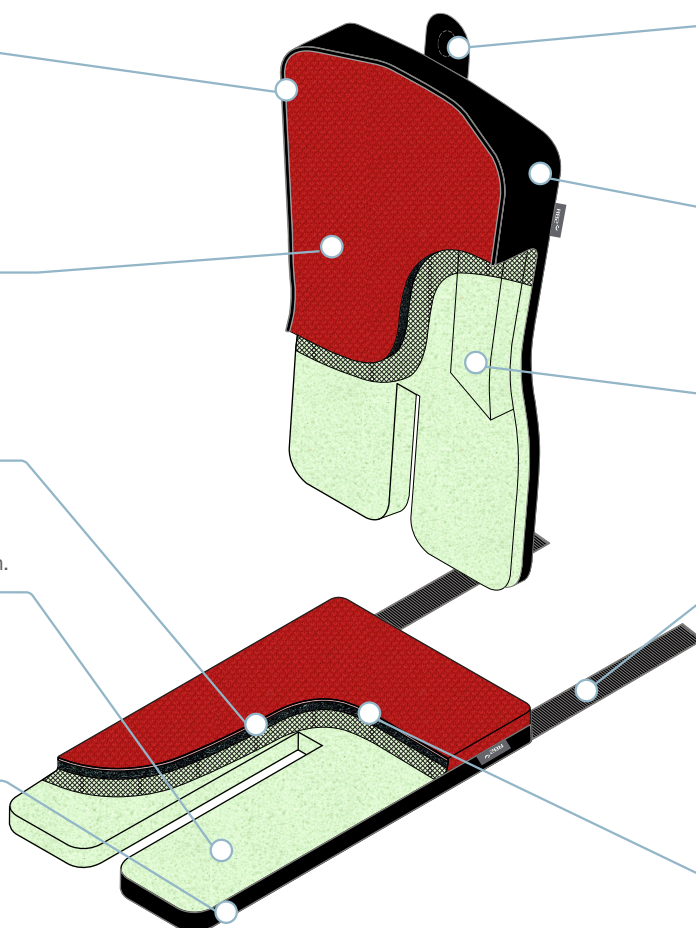
This wedge adds contour, creating comfortable back support.

Straps

Straps for fitting into the fix locks on the seat.

The extra layer of foam

In the two layer solution, an extra layer of foam has been sewn onto the inside of the cover. The solution has shown to reduce peak pressure compared to the one-layer solution without foam in the cover.



The two layer solution reduces peak pressure

We measured peak pressure on x:panda cushion size 4 with and without the extra layer of foam and with seven different weight loads in 2-minute sessions. Our results show a statistically significant reduction of peak pressure with an average improvement of 14% using the extra layer of foam.

A decrease in peak pressure might improve comfort and decrease the likelihood of developing pressure sore injuries. A Clinical assessment of the seating position should include evaluation of the risk factors of the individual child.

Minimising the work of parents and caregivers

Provision for a child with a chronic health condition has a negative effect on health and health-related quality of life of the caregiver's family (Raina 2005, Raina 2004, Dambi 2014). Assistive technology, such as seating systems, can decrease effort and energy expenditure for family caregivers (Nicolson 2012).

Cleaning and maintenance

The usage, cleaning and maintenance of the x:panda is kept simple and easy, providing parents and caregivers more time to engage in more interesting activities. The cushions and side supports are made of fabric that is water repellent and wipeable. The covers can be easily removed for washing.



Cushion cover, back



Cushion cover, seat



Cushions & covers:

- For side supports, abductors, knee support, armrests
- Are made of durable & comfortable fabric
- Are washable at 60 °C



Video on cushions mounting demonstration



Go to video on cushions and covers

Activity, performance & participation

Research suggests that adaptive seating systems may be able to improve activity and participation at home among children with severe cerebral palsy (Angusupailsal 2015). The x:panda can be used to establish an ideal seating position for children and youngsters with disabilities to play and engage in activities that thereby develop their skills.



User involvement without compromising comfort and interact on

For most children and youngsters, a good comfortable seating position can have a positive impact on muscle tone and facilitates the child's ability to perform movements with their upper extremities and head. A range of different features and functions have been developed to create the best possible sitting position for each individual child.

A stable and reliable base

The x:panda creates a stable base consisting of the pelvis, thighs and feet, on which the trunk, shoulder and head balance. This allows for movements of the head, arms and hands. It can accommodate complex requirements and provide the child with a reliable and durable positioning. Furthermore, the adjustments are intuitive and reasonably easy to do. Also, depending on size, it can be mounted on a number of frames such as the Multi Frame, Combi frame and the frames listed below.



High-low:x Frame



Stingray Frame



Combi Frame:x



Strong Base

Uniquely multi-adjustable

The evolution of the R82 x:panda is still supported by its renowned features, such as the dynamic back, back recline, multi-adjustability and growth. The x:panda was developed with particular attention to the articulation of the backrest relative to the seat. The goal being to create a seating system that moves in harmony with the body.

The dynamic back allows a child to extend and push backwards with minimal resistance and then regain the original seating position. The multi-adjustability and growth features make it possible to individually adjust leg channels, adjust back height, adjust seat width and depth to accommodate growth.



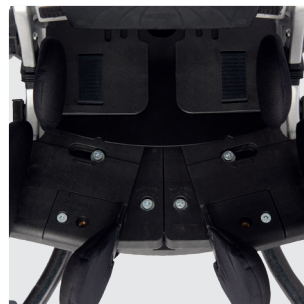
Dynamic back

The gas strut configuration is decided based on the child's size and the extensor thrust energy generated by the child. A non-dynamic gas spring is available as an accessory.



Back recline

The point for rotation is close to the axis of the anatomical pivot point of the hip joints. This means that the back support maintains the correct position and minimises shear between the user and the backrest.



Multi-adjustable

Overlap in sizing means that the starting option always offers the maximum growth potential coupled with individual leg positioning.



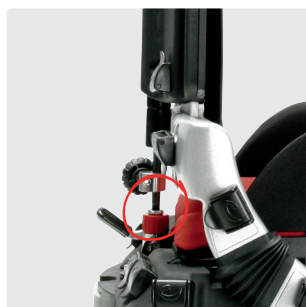
Growth

Individual growth in width, depth and back height extend the life of the seat and accommodate a wide range of sizes.

Configuration according to needs



Seat, Standard



Gas spring, Standard



Fix locks, Standard

Go to video on recline and dynamic back



Growth adaptability



Small



Medium



Large

Go to video on multi adjustability and growth



Sizes & Measurements

		1	2	3	4
	Effective seat width	6¼", 7¾", 9½"	7¼", 9½", 11"	10¼", 12¼", 14¼"	13½", 15¾", 18"
	Effective seat depth	6¼"-10¼"	8½"-13"	10¼"-15¼"	15¼"-20¾"
	Backrest height	10½"-14½"	12½"-16½"	13¾"-18½"	19¾"-28"
	Max user mass	66.1 lb	66.1 lb	132.2 lb	176.3 lb
	Max user mass in transportation	66.1 lb	66.1 lb	132.2 lb	165.3 lb
	Backrest angle	-5° - 30°	-5° - 30°	-5° - 30°	-5° - 30°
	Overall width*	12¼", 13¾", 15¼"	15", 16½", 18"	18½", 20 ½", 22½"	23¾", 25½", 28"
	Mass device	14.3 lb	18.7 lb	24.3 lb	28.5 lb

*Measurements taken with both legs in max abduction. Further measurements at our website

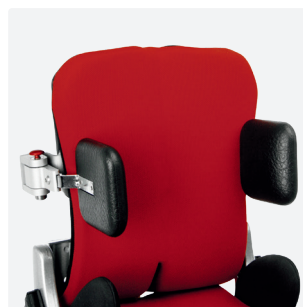
Accessories



Back rest extension



Head supports



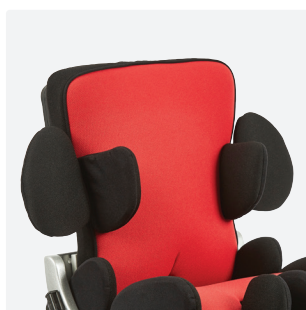
Swing-away side supports



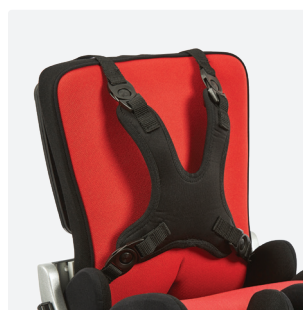
Fixed side supports



Adjustable upper arm supports



Upper arm supports



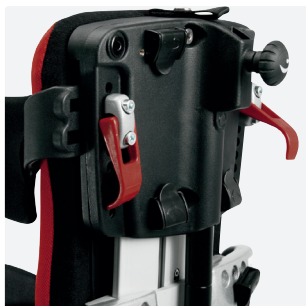
Vest and belts



Non-dynamic gas spring



Fixed rod



Quick locks



Back width extensions
For x:panda size 4



Cover plate
For x:panda size 4



Foam back plate



Lumbar support



Hip supports (only for size 4)



**Armrest/Daily adjustment kit/
Arm rest cover**



Pommel



Tray



Arm rest for tray



Grip handle for tray



Tray/Toy bar



**Girth for seat upholstery
without abduction**



Seat wedges

For more accessories
- visit our website



Founded in 1973, Etac is a world-leading developer and provider of ergonomic assistive devices and patient handling equipment. Our ambition is to provide solutions that optimise quality of life for the individual, family members and caregivers.

For the latest news and continuously updated product information – visit: www.etac.us.com

ETAC - United States



+1 (844) 876-624



sales.us@etac.com



www.etac.us.com

etac®
Creating Possibilities