



R82 x:panda

Evolution in seating & comfort

R82[®] 



Reimagining the seating experience

Individuals, families and specialists worldwide enjoy the multiple configurations of the x:panda and its variety of features and accessories. We have now reimagined the entire x:panda seating experience and are proud to introduce the newest generation of the R82 x:panda. 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.

Improving perfection and Improving daily living

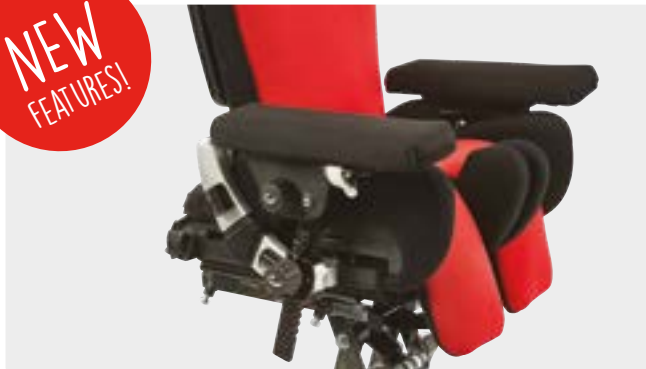
Available in four sizes, x:panda is a highly adaptable modular seating system that can be configured to meet a range of postural requirements and to accommodate growth.

We have reimagined the seat so users, families and specialists can enjoy the evolutionary features by improving the perfect seat with new armrests, fixed wedges, visual markings, cushions and covers. These expanded features translate to added benefits to the

existing features such as the dynamic back, back recline, multi-adjustability and accessories that 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 improved x:panda also improves tasks of daily living.

NEW
FEATURES!



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.

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.

Covers

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

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.

Vests & belts

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

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.

Lateral & medial knee supports

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

Foot supports

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



GO TO VIDEO WITH THE EVOLUTION OF
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



NEW 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.



BACK CUSHION COVER



SEAT CUSHION COVER



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.

Simon, 6 years old

Enjoying the x:panda



A new way for users to be involved 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.



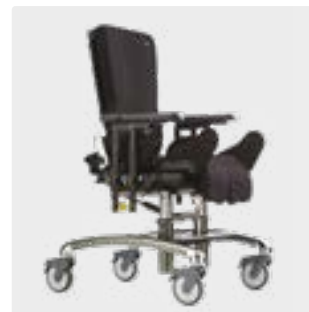
HIGH LOW:X FRAME



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.



GO TO VIDEO ON MULTI ADJUSTABILITY AND GROWTH



GO TO VIDEO ON RECLINE AND DYNAMIC BACK

For home use, institutions or other.





Sizes & Measurements

x:panda measurements		size 1	size 2	size 3	size 4
	Effective seat width	160, 200, 240	200, 240, 280	260, 310, 360	340, 400, 460
	Width thighs	70, 90, 110	100, 120, 140	120, 145, 170	130, 190, 250
	Effective seat depth	160 - 260	220 - 330	260 - 390	380 - 530
	Backrest height	270 - 370	320 - 420	350 - 470	500 - 710
	Back width, top	230	280	330	35 +5
	Overall width both legs in max abduction	310, 350, 390	380, 420, 460	470, 520, 570	590, 650, 710
	Armrest to seat distance	100-165	100-165	100-165	100-165
	Front location of armrest structure	140	140	180	350
	Backrest angle	-5° - +30°	-5° - +30°	-5° - +30°	-5° - +30°
	Abduction angle each leg * size 1 in the smallest position	0° - 15° 0° - 8°	0° - 15°	0° - 15°	0° - 15°
	Total mass, seat	6,5 kg	8,5 kg	11 kg	13 kg
	Max load	30 kg	30 kg	60 kg	80 kg
	Max load at transportation	30 kg	30 kg	60 kg	75 kg
Approx. min user height		650	850	1000	1390
Approx. max user height		1050	1280	1430	1800



GO TO WEBSITE AND READ MORE ABOUT THE EVOLUTION OF THE X:PANDA

Configuration according to needs

SEAT



STANDARD

GAS SPRING



STANDARD

FIX LOCKS



STANDARD

GROWTH ADAPTABILITY



SMALL

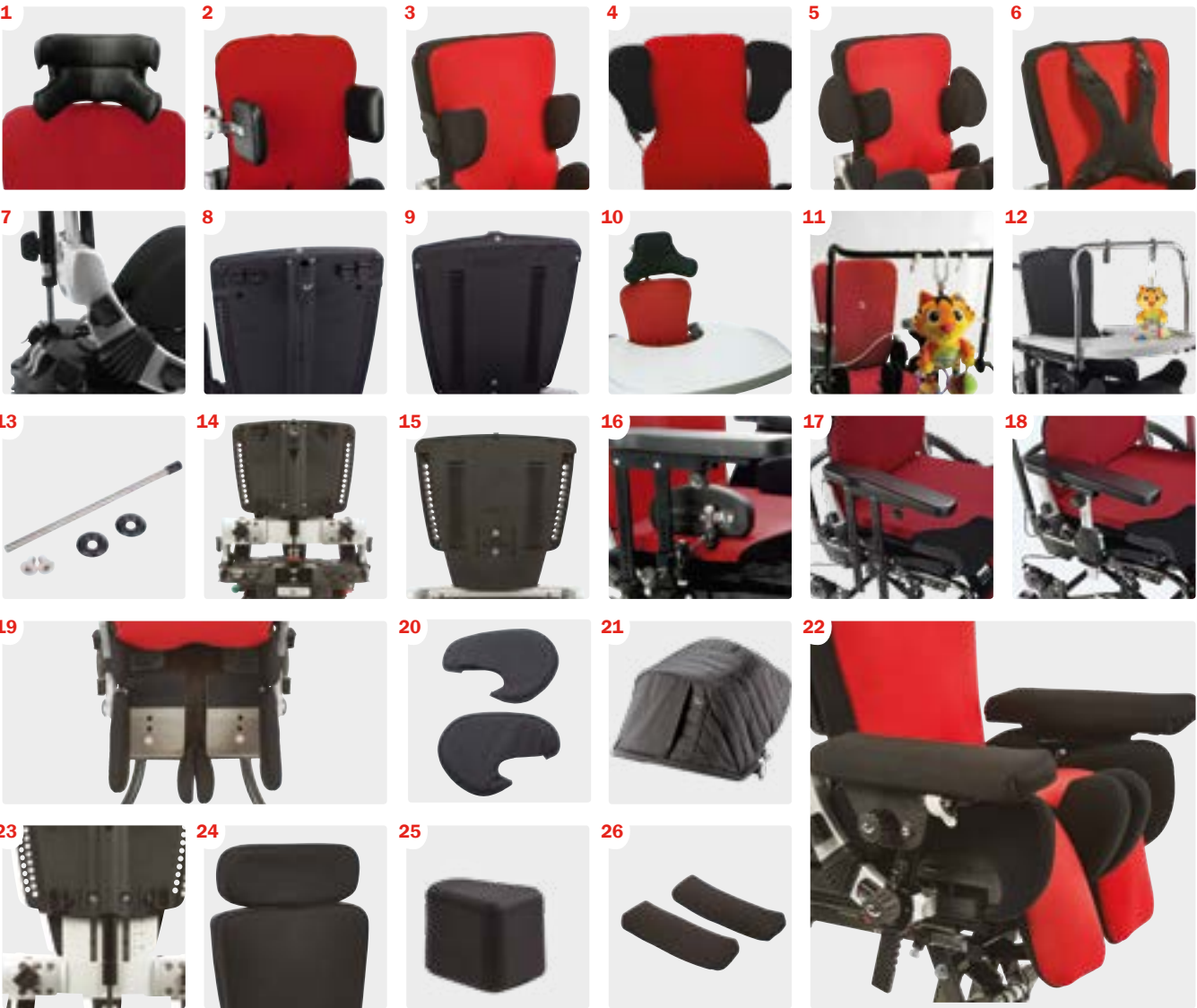


MEDIUM



LARGE

Accessories



- 1 Head supports**
99xxxx-xx

5 Overarm supports
8910407-x

9 Cover plate
8910406-4
Only for size 4

13 x:panda kit
8910613
One size

17 Double rod arm rest
8910618
For x:panda size 4

21 Canopy
87401x0
two sizes

25 Pommel
8910408-x
- 2 Swing-away side supports**
839xx-xx

6 Vest and belts
89113-x

10 Trays
891072x-x, 8976350

14 Fix lock fittings
8910260
One size

18 Single rod arm rest
8910619
For x:panda size 4

22 Armrests
891061x
Three sizes

26 x:panda armrest covers
891061x-20
- 3 Fixed side supports**
8910401-x, 8910401-xP

7 Non-dynamic gas spring
891100x

11 Activity centre
89250

15 Foam back plate
8910406-x

19 Seat wedges
8910405-x

23 Fixed rod
891150x
Three sizes
- 4 Adjustable upper arm supports**
8910407-x0

8 Back width extensions
8910409-45
For x:panda size 4

12 Toy bar
8910740
For x:panda size 1-3

16 Hip support
8910404-45
For x:panda size 4

20 Extra padding
8910404

24 Back rest extension
8910655-x60



For the latest news and continuously updated
product information and references – visit: www.R82.org