





History of Spex

Since 1990, Medifab has engineered specialised seating products that provide the optimal blend of form, function and comfort.

The Spex brand is a cultivated result from over 25 years of research, trial, and listening to customer feedback. As industry innovators, we have worked with top clinicians, and tested our products to perform and satisfy. Distinguished by high standards of design and clinical evaluation, Spex delivers a superior clinical seating packed with advantages.

BENEFITS OF SPEX

Spex seating is intended for users who require postural support, and accomplishes what the seating clinician desires, with a focus on minimalising the time taken to reach the solution.

- Clinically appropriate seating choice
- Easy to use from installation to completion
- Solves clients seating needs in minimal time
- Customisable to suit different postural deviations
- Modular flexibility to accommodate changing postural needs
- Installs on virtually any wheelchair base
- Breathable for temperature control
- Standard sizes from 10" paediatrics to large adults with non-standard sizes by request
- Wheelchair transportation safety standards certified

HARDWARE

Spex configurable hardware is the outcome of engineering achievements with a goal to establish an easy-to-install support interface that suits virtually anybody and any wheelchair.

Crash tested and certified to RESNA WC-4, Section 20 and ISO16840-4 transport standards when used with a WC19/ISO 7179-19 compliant wheelchair base frame, you can be reassured that Spex will live up to its brand attributes of being resilient and durable. Spex hardware can be deployed as the building blocks for other customised and moulded seating systems.

Note: Utilising the new series hardware in conjunction with previous hardware is not recommended due to testing and certification reasons.

AXIAL® TECHNOLOGY

With many clients having asymmetrical body contours and requiring their posture to be supported and maintained, our patented Axial® technology provides the correct surface contact and support structure with a mechanically rotational system.

Axial® hardware allows the support pad to be set at any angle to meet rotated pelvis, wind-sweeping, scoliosis etc. so the pad interface is in the exact corresponding position for full surface contact benefitting by distributing weight and therefore reducing pressure, whether on a lateral pelvic/thigh support, lateral trunk support or medial thigh/knee block or other body support.

Z-bars allow unimpeded adjustability for setting support pads at the desired width and angle for maintaining clinically correct posture. In addition to the rotational pad adjustment, the Z-bars allow infinite offset capabilities and width adjustment.

Spex is the subject of patents, patents pending, design rights and copyright. Medifab places great value in these intellectual property rights and reserves its right to protect them where necessary. User instructions can be downloaded at www.spexseating.com/resources. Spex seating may not function as intended when used at extreme temperatures; keep away from sources of moisture and extreme temperatures.





Shaping better lives worldwide through
clinically proven modular wheelchair seating



Vigour Cushion



CLINICAL

Designed for the user who has symmetrical or mild asymmetrical postures needing mild to moderate postural control. Excellent choice for individuals who:

- Require pressure reduction and redistribution
- Require pelvic stability
- Need moderate control of posture and upper extremities
- Need moderate control of abduction or adduction propensities

FUNCTIONAL

- Gel-foam ischial well evenly distributes pressure under the pelvis and in combination with the dual-layer cover, reduces shear forces in sensitive areas
- Special foam layers' combination, strategically combined to offer a supportive foundation for a correct seating posture
- Slight thigh elevation built-in for increased balance
- Offers exceptional pelvic comfort
- Specific contouring offers a high degree of pelvic stability
- Coccyx channel for enhanced pressure relief (for sizes 16" +)
- Dual-layer cover reduces shear forces, and breathable air-mesh on cushion sides counters moisture
- Inner incontinence cover included
- Customisable for many requirements such as leg length discrepancies
- Approx. cushion weight is from 0.7 to 2.6 kg

Width	Length	Trough Height	Cushion Height	Cushion Code	Spare Cover Code	Incontinence Cover Code
10"	10"	30 mm	2"	1103-1010-OSC	1125-1010-6SC	1135-1010-7SC
"	12"	30 mm	2"	1103-1012-OSC	1125-1012-6SC	1135-1012-7SC
11"	10"	30 mm	2.5"	1103-1110-OSC	1125-1110-6SC	1135-1110-7SC
"	12"	30 mm	2.5"	1103-1112-OSC	1125-1112-6SC	1135-1112-7SC
12"	12"	30 mm	2.5"	1103-1212-OSC	1125-1212-6SC	1135-1212-7SC
"	14"	30 mm	2.5"	1103-1214-OSC	1125-1214-6SC	1135-1214-7SC
13"	12"	30 mm	2.5"	1103-1312-OSC	1125-1312-6SC	1135-1312-7SC
"	14"	30 mm	2.5"	1103-1314-OSC	1125-1314-6SC	1135-1314-7SC
14"	14"	30 mm	2.5"	1103-1414-OSC	1125-1414-6SC	1135-1414-7SC
"	16"	30 mm	2.5"	1103-1416-OSC	1125-1416-6SC	1135-1416-7SC
"	18"	30 mm	2.5"	1103-1418-OSC	1125-1418-6SC	1135-1418-7SC
15"	14"	30 mm	2.5"	1103-1514-OSC	1125-1514-6SC	1135-1514-7SC
"	16"	30 mm	2.5"	1103-1516-OSC	1125-1516-6SC	1135-1516-7SC
16"	16"	30 mm	2.75"	1103-1616-OSC	1125-1616-6SC	1135-1616-7SC
"	18"	30 mm	2.75"	1103-1618-OSC	1125-1618-6SC	1135-1618-7SC
"	20"	30 mm	2.75"	1103-1620-OSC	1125-1620-6SC	1135-1620-7SC
17"	17"	30 mm	2.75"	1103-1717-OSC	1125-1717-6SC	1135-1717-7SC
"	18"	30 mm	2.75"	1103-1718-OSC	1125-1718-6SC	1135-1718-7SC
18"	18"	30 mm	3"	1103-1818-OSC	1125-1818-6SC	1135-1818-7SC
"	20"	30 mm	3"	1103-1820-OSC	1125-1820-6SC	1135-1820-7SC
19"	18"	30 mm	3"	1103-1918-OSC	1125-1918-6SC	1135-1918-7SC
"	20"	30 mm	3"	1103-1920-OSC	1125-1920-6SC	1135-1920-7SC
20"	20"	30 mm	3"	1103-2020-OSC	1125-2020-6SC	1135-2020-7SC
"	22"	30 mm	3"	1103-2022-OSC	1125-2022-6SC	1135-2022-7SC



Spex Standard Contour

CLINICAL

Designed for the user who has moderate to severe positioning and pressure requirements. Excellent choice for individuals who:

- Have changing postural needs over time
- Have a symmetrical or asymmetrical sitting posture that requires correction or control
- Require pelvic comfort and pressure relief/distribution
- Require a high degree of pelvic stability and specific contouring
- Have tight hamstrings/lack of hip flexion
- Need moderate control of abduction or adduction propensities

FUNCTIONAL

- Created as the solution-solver for asymmetrical postures
- Strategic contouring pads offer complete customisations on-the-spot for a perfect fit for the client
- Gel-foam ischial well evenly distributes pressure under the pelvis and in combination with the dual-layer cover, reduces shear forces in sensitive areas
- Coccyx channel for enhanced pressure relief (for sizes 16" +)
- Dual-layer cover reduces shear forces, and breathable air-mesh on cushion sides counters moisture
- Inner incontinence cover included
- Customisable for many requirements such as leg length discrepancies
- Approx. cushion weight is from 0.7 to 2.6 kg

Width	Length	Trough Height	Cushion Height	Cushion Code	Spare Cover Code	Incontinence Cover Code
10"	10"	30 mm	2"	1105-1010-OSC	1125-1010-6SC	1135-1010-7SC
"	12"	30 mm	2"	1105-1012-OSC	1125-1012-6SC	1135-1012-7SC
11"	10"	30 mm	2.5"	1105-1110-OSC	1125-1110-6SC	1135-1110-7SC
"	12"	30 mm	2.5"	1105-1112-OSC	1125-1112-6SC	1135-1112-7SC
12"	12"	30 mm	2.5"	1105-1212-OSC	1125-1212-6SC	1135-1212-7SC
"	14"	30 mm	2.5"	1105-1214-OSC	1125-1214-6SC	1135-1214-7SC
13"	12"	30 mm	2.5"	1105-1312-OSC	1125-1312-6SC	1135-1312-7SC
"	14"	30 mm	2.5"	1105-1314-OSC	1125-1314-6SC	1135-1314-7SC
14"	14"	30 mm	2.5"	1105-1414-OSC	1125-1414-6SC	1135-1414-7SC
"	16"	30 mm	2.5"	1105-1416-OSC	1125-1416-6SC	1135-1416-7SC
"	18"	30 mm	2.5"	1105-1418-OSC	1125-1418-6SC	1135-1418-7SC
15"	14"	30 mm	2.5"	1105-1514-OSC	1125-1514-6SC	1135-1514-7SC
"	16"	30 mm	2.5"	1105-1516-OSC	1125-1516-6SC	1135-1516-7SC
16"	16"	30 mm	2.75"	1105-1616-OSC	1125-1616-6SC	1135-1616-7SC
"	18"	30 mm	2.75"	1105-1618-OSC	1125-1618-6SC	1135-1618-7SC
"	20"	30 mm	2.75"	1105-1620-OSC	1125-1620-6SC	1135-1620-7SC
17"	17"	30 mm	2.75"	1105-1717-OSC	1125-1717-6SC	1135-1717-7SC
"	18"	30 mm	2.75"	1105-1718-OSC	1125-1718-6SC	1135-1718-7SC
18"	18"	30 mm	3"	1105-1818-OSC	1125-1818-6SC	1135-1818-7SC
"	20"	30 mm	3"	1105-1820-OSC	1125-1820-6SC	1135-1820-7SC
19"	18"	30 mm	3"	1105-1918-OSC	1125-1918-6SC	1135-1918-7SC
"	20"	30 mm	3"	1105-1920-OSC	1125-1920-6SC	1135-1920-7SC
20"	20"	30 mm	3"	1105-2020-OSC	1125-2020-6SC	1135-2020-7SC
"	22"	30 mm	3"	1105-2022-OSC	1125-2022-6SC	1135-2022-7SC

Spex High Contour Cushion

The Spex High Contour Cushion offers enhanced thigh and abductor support. Key solution to positioning and levelling the pelvis correctly and effectively. Accomplish on-the-spot modifications with the cushion's strategic positioning base.

CLINICAL

Designed for the user who has moderate to severe positioning and pressure requirements. Excellent choice for individuals who:

- Need high control of abduction or adduction propensities
- Have changing postural needs over time
- Have a symmetrical or asymmetrical sitting posture that requires correction or control
- Require pelvic comfort and pressure relief/distribution
- Require a high degree of pelvic stability and specific contouring

FUNCTIONAL

- Positioning base accommodates tight hamstrings/lack of hip flexion
- Created as the solution-solver for asymmetrical postures
- Strategic contouring pads offer complete customisations on-the-spot for a perfect fit for the client
- Gel-foam ischial well evenly distributes pressure under the pelvis and in combination with the dual-layer cover, reduces shear forces in sensitive areas
- Coccyx channel for enhanced pressure relief (for sizes 16" +)
- Dual-layer cover reduces shear forces, and breathable air-mesh on cushion sides counters moisture
- Inner incontinence cover included
- Customisable for many requirements such as leg length discrepancies
- Approx. cushion weight is from 0.8 to 2.7 kg



Bespoke modifications can be scripted according to needs of the user.



SPEX STRATEGIC POSITIONING BASE



Configure to suit many different postures of persons with disabilities or sitting issues. By adjusting the strategic positioning base, the cushion surface is contoured to improve overall posture, pelvic alignment, sitting ability, comfort and pressure reduction.



TIGHT HAMSTRINGS / LIMITED HIP FLEXION / POSTERIOR PELVIC TILT

Cushion can be wedged to slope to front with cells added at rear and removed at front.



MANAGEMENT & POSITIONING

Build cells up under thighs for enhanced pre-ischial support and control.



PELVIC ROTATION

To help control pelvis from rotating, create a build-up under the affected leg (in front of the ischial).



Width	Length	Trough Height	Cushion Height	Cushion Code	Spare Cover Code	Incontinence Cover Code
10"	10"	50 mm	2"	1105-1010-0HC	1125-1010-6HC	1135-1010-7HC
"	12"	50 mm	2"	1105-1012-0HC	1125-1012-6HC	1135-1012-7HC
11"	10"	50 mm	2.5"	1105-1110-0HC	1125-1110-6HC	1135-1110-7HC
"	12"	50 mm	2.5"	1105-1112-0HC	1125-1112-6HC	1135-1112-7HC
12"	12"	50 mm	2.5"	1105-1212-0HC	1125-1212-6HC	1135-1212-7HC
"	14"	50 mm	2.5"	1105-1214-0HC	1125-1214-6HC	1135-1214-7HC
13"	12"	50 mm	2.5"	1105-1312-0HC	1125-1312-6HC	1135-1312-7HC
"	14"	50 mm	2.5"	1105-1314-0HC	1125-1314-6HC	1135-1314-7HC
14"	14"	50 mm	2.5"	1105-1414-0HC	1125-1414-6HC	1135-1414-7HC
"	16"	50 mm	2.5"	1105-1416-0HC	1125-1416-6HC	1135-1416-7HC
"	18"	50 mm	2.5"	1105-1418-0HC	1125-1418-6HC	1135-1418-7HC
15"	14"	50 mm	2.5"	1105-1514-0HC	1125-1514-6HC	1135-1514-7HC
"	16"	50 mm	2.5"	1105-1516-0HC	1125-1516-6HC	1135-1516-7HC
16"	16"	50 mm	2.75"	1105-1616-0HC	1125-1616-6HC	1135-1616-7HC
"	18"	50 mm	2.75"	1105-1618-0HC	1125-1618-6HC	1135-1618-7HC
"	20"	50 mm	2.75"	1105-1620-0HC	1125-1620-6HC	1135-1620-7HC
17"	17"	50 mm	2.75"	1105-1717-0HC	1125-1717-6HC	1135-1717-7HC
"	18"	50 mm	2.75"	1105-1718-0HC	1125-1718-6HC	1135-1718-7HC
18"	18"	50 mm	3"	1105-1818-0HC	1125-1818-6HC	1135-1818-7HC
"	20"	50 mm	3"	1105-1820-0HC	1125-1820-6HC	1135-1820-7HC
19"	18"	50 mm	3"	1105-1918-0HC	1125-1918-6HC	1135-1918-7HC
"	20"	50 mm	3"	1105-1920-0HC	1125-1920-6HC	1135-1920-7HC
20"	20"	50 mm	3"	1105-2020-0HC	1125-2020-6HC	1135-2020-7HC
"	22"	50 mm	3"	1105-2022-0HC	1125-2022-6HC	1135-2022-7HC

Spex SuperHigh Contour Cushion

Using the proven Spex strategic positioning base technology, the SuperHigh contour cushion creates an optimum pelvic foundation for the user that requires extra pelvic and hip immersion.

It's properties provide hip/leg envelopment as well as an ideal pressure redistribution all over the seat cushion. The medial thigh support combined with lateral thigh supports maximizes the user stability, providing greater balance and support on upper body. The SuperHigh contour cushion's body-hugging nature delivers comfort and daily sitting relief; while the 3D breathable mesh fabric helps in reducing moisture and temperature.

CLINICAL

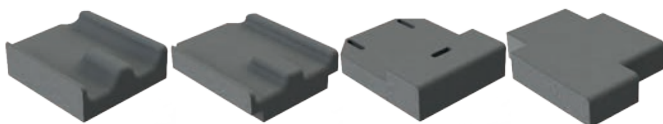
Designed for the user who has moderate to severe positioning requirements. Excellent choice for individuals who:

- Require extra pelvic and hip immersion
- Have muscle tone patterns that require sufficient thigh lateral control. Thigh support is higher for alignment - refer measurement table
- If extremity support can't be maintained through the use of external thigh laterals and/or if installing thigh laterals can't be used, the SuperHigh contour cushion will provide that needed support and stabilization
- Have a symmetrical or asymmetrical sitting posture that requires correction or control/accommodation
- Require pelvic comfort and pressure relief/distribution
- Require a high degree of pelvic stability and specific contouring

FUNCTIONAL

- Positioning base accommodates tight hamstrings/lack of hip flexion
- No maintenance required. A reliable, peace-of-mind solution!
Strategic contouring pads offer complete customisations on-the-spot for a perfect fit for the client
- Removable lateral rigidizers which add extra thigh support/alignment
- Gel-foam ischial well evenly distributes pressure under the pelvis and in combination with the dual-layer cover, reduces shear forces in sensitive areas
- Coccyx channel for enhanced pressure relief (for sizes 16"+)
- Dual-layer cover reduces shear forces, and breathable air-mesh on cushion sides counters moisture
- Inner incontinence cover included
- Customisable for many requirements such as leg length discrepancies
- Not compatible with Thigh Supports or Medial Thigh Supports
- Approx. cushion weight is from 0.9 to 2.8 kg

Bespoke modifications can be scripted according to needs of the user.



SPEX STRATEGIC POSITIONING BASE



Configure to suit many different postures of persons with disabilities or sitting issues. By adjusting the strategic positioning base, the cushion surface is contoured to improve overall posture, pelvic alignment, sitting ability, comfort and pressure reduction.



TIGHT HAMSTRINGS / LIMITED HIP FLEXION / POSTERIOR PELVIC TILT

Cushion can be wedged to slope to front with cells added at rear and removed at front.



MANAGEMENT & POSITIONING

Build cells up under thighs for enhanced pre-ischial support and control.



PELVIC ROTATION

To help control pelvis from rotating, create a build-up under the affected leg (in front of the ischial).



Deep **PELVIC IMMERSION** for ultimate pressure relief and comfort

Super high medial and lateral contouring for **STABILITY AND CONTROL**

Cross-linked foam profiles for **DURABILITY**

Maintain **PELVIC STABILITY** with adjustable positioning base

Width	Length	Trough Height	Cushion Code	Spare Cover Code	Incontinence Cover Code
10"	10"	80 mm	1105-1010-0SH	1125-1010-6SH	1135-1010-7SH
"	12"	80 mm	1105-1012-0SH	1125-1012-6SH	1135-1012-7SH
11"	10"	80 mm	1105-1110-0SH	1125-1110-6SH	1135-1110-7SH
"	12"	80 mm	1105-1112-0SH	1125-1112-6SH	1135-1112-7SH
12"	12"	80 mm	1105-1212-0SH	1125-1212-6SH	1135-1212-7SH
"	14"	80 mm	1105-1214-0SH	1125-1214-6SH	1135-1214-7SH
13"	12"	80 mm	1105-1312-0SH	1125-1312-6SH	1135-1312-7SH
"	14"	80 mm	1105-1314-0SH	1125-1314-6SH	1135-1314-7SH
14"	14"	100 mm	1105-1414-0SH	1125-1414-6SH	1135-1414-7SH
"	16"	100 mm	1105-1416-0SH	1125-1416-6SH	1135-1416-7SH
"	18"	100 mm	1105-1418-0SH	1125-1418-6SH	1135-1418-7SH
15"	14"	100 mm	1105-1514-0SH	1125-1514-6SH	1135-1514-7SH
"	16"	100 mm	1105-1516-0SH	1125-1516-6SH	1135-1516-7SH
16"	16"	100 mm	1105-1616-0SH	1125-1616-6SH	1135-1616-7SH
"	18"	100 mm	1105-1618-0SH	1125-1618-6SH	1135-1618-7SH
"	20"	100 mm	1105-1620-0SH	1125-1620-6SH	1135-1620-7SH
17"	17"	100 mm	1105-1717-0SH	1125-1717-6SH	1135-1717-7SH
"	18"	100 mm	1105-1718-0SH	1125-1718-6SH	1135-1718-7SH
18"	18"	100 mm	1105-1818-0SH	1125-1818-6SH	1135-1818-7SH
"	20"	100 mm	1105-1820-0SH	1125-1820-6SH	1135-1820-7SH
19"	18"	100 mm	1105-1918-0SH	1125-1918-6SH	1135-1918-7SH
"	20"	100 mm	1105-1920-0SH	1125-1920-6SH	1135-1920-7SH
20"	20"	100 mm	1105-2020-0SH	1125-2020-6SH	1135-2020-7SH
"	22"	100 mm	1105-2022-0SH	1125-2022-6SH	1135-2022-7SH

Vigour Back Support

Lightweight yet tough to meet the daily lifestyle demands of active wheelchair users. Back support angle and seat depth offers exceptional adjustability and can be facilitated with the user in the wheelchair. Ventilated spacer-fabric and shell system increases air-flow through the back offering daily comfort.

VIGOUR LO

New inversible shell design means the Vigour Lo can be used either way up on the wheelchair. Sacral and lumbar height support allowing unrestricted upper body range of movement.

Designed for the individual who requires:

- A solid back support with the ability to self-propel
- Minimal postural support
- Improved spinal and pelvic positioning whilst maintaining propelling efficiency
- For clients that have mild torso asymmetries

Approx. Vigour Lo weight is from 0.8 to 1.5 kg



VIGOUR MID

Lightweight and designed for efficient propelling, with scapular subtractions for unimpeded arm function.

Designed for the individual who requires:

- A solid back support with the ability to self-propel
- Minimal to moderate postural support
- Improved spinal and pelvic positioning whilst maintaining propelling efficiency
- In combination with lateral supports offers exceptional trunk and thoracic stability
- For clients that have mild torso asymmetries

Approx. Vigour Mid weight is from 0.9 to 2.5 kg



VIGOUR HI

Solid full height back support available in three heights for maximum trunk and shoulder support.

Designed for the individual who requires:

- A solid back support
- Minimal to moderate postural support
- Improved spinal and pelvic positioning whilst maintaining propelling efficiency
- In combination with lateral supports offers exceptional trunk and thoracic stability

Approx. Vigour Hi weight is from 1 to 3.3 kg

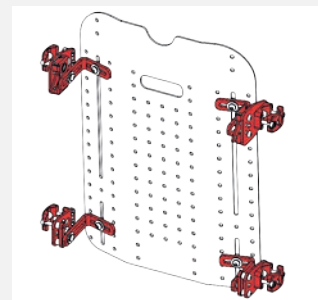


MICRO-CUBE FOAM UPGRADE

Air-flow breathability for maximum control of temperature and moisture. Micro-cube cells provide zoned weight distribution enhancing comfort.



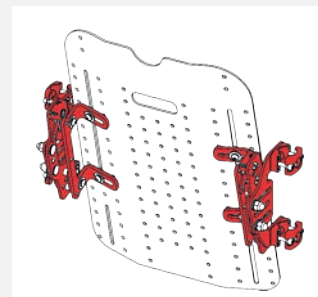
HARDWARE OPTIONS



QUAD MOUNT (DEFAULT)

Default hardware with 4 points of attachment for ultimate strength.

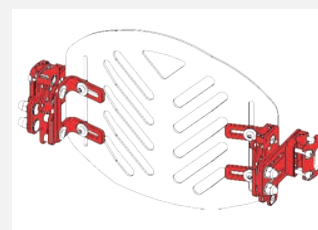
#1259-2400-100



DUAL MOUNT (OPTION)

Increased adjustability, angle and growth.

#1259-2200-100



SINGLE MOUNT (OPTION)

For lower height backs, and as a lightweight option.

#1259-2100-100



Dual-layer cover reduces **SHEAR FORCES** with air-mesh side panels to counter moisture and temperature

Add laterals as required from our **LARGE MODULAR RANGE**

Can be upgraded with **DIFFERENT FOAM PADDING OPTIONS** for excellent results

SLOTS & HOLE POSITIONS on shell allow easy installation of head supports, lateral supports and harnesses

W/C Width	Vigour Lo Back Support Height	Vigour Lo Back Support Code	Vigour Lo Spare Cover Code	Vigour Mid Back Support Height	Vigour Mid Back Support Code	Vigour Mid Spare Cover Code
10"	6"	1252-1006-00L	1252-1006-00L-C	10"	1252-1010-00M	1252-1010-00M-C
12"	7"	1252-1207-00L	1252-1207-00L-C	12"	1252-1212-00M	1252-1212-00M-C
14"	8"	1252-1408-00L	1252-1408-00L-C	14"	1252-1414-00M	1252-1414-00M-C
16"	10"	1252-1610-00L	1252-1610-00L-C	16"	1252-1616-00M	1252-1616-00M-C
17"	10"	1252-1710-00L	1252-1710-00L-C	17"	1252-1717-00M	1252-1717-00M-C
18"	11"	1252-1811-00L	1252-1811-00L-C	17"	1252-1817-00M	1252-1817-00M-C
20"	11"	1252-2011-00L	1252-2011-00L-C	17"	1252-2017-00M	1252-2017-00M-C

W/C Width	Vigour Hi Back Support Height	Vigour Hi Back Support Code	Vigour Hi Spare Cover Code	Vigour Hi Back Support Height	Vigour Hi Back Support Code	Vigour Hi Spare Cover Code
10"	12"	1252-1012-00H	1252-1012-00H-C	14"	1252-1014-00H	1252-1014-00H-C
"	16"	1252-1016-00H	1252-1016-00H-C			
12"	14"	1252-1214-00H	1252-1214-00H-C	16"	1252-1214-00H	1252-1214-00H-C
"	18"	1252-1218-00H	1252-1218-00H-C			
14"	16"	1252-1416-00H	1252-1416-00H-C	18"	1252-1418-00H	1252-1418-00H-C
"	20"	1252-1420-00H	1252-1420-00H-C			
16"	18"	1252-1618-00H	1252-1618-00H-C	20"	1252-1620-00H	1252-1620-00H-C
"	23"	1252-1623-00H	1252-1623-00H-C			
17"	18"	1252-1718-00H	1252-1718-00H-C	20"	1252-1718-00H	1252-1718-00H-C
"	23"	1252-1723-00H	1252-1723-00H-C			
18"	18"	1252-1818-00H	1252-1818-00H-C	20"	1252-1820-00H	1252-1820-00H-C
"	23"	1252-1823-00H	1252-1823-00H-C			
20"	18"	1252-2018-00H	1252-2018-00H-C	20"	1252-2018-00H	1252-2018-00H-C
"	23"	1252-2023-00H	1252-2023-00H-C			

Mantaray Back Support

Mantaray offers a solid shell with unique adjustable laterals (or wing tips!) that can be width, height and angle adjusted to give excellent lateral stability. An upholstery wrap offers comfort and secure spine and trunk support.

CLINICAL

Designed for the individual who requires:

- A solid back support to support minimal deformities or stability needs
- Minimal to moderate postural support
- Improved trunk/pelvic positioning whilst maintaining propelling efficiency
- Has mild-moderate torso asymmetries
- Greater functionality as there is minimal hardware between the client and the lateral supports

FUNCTIONAL

- Fully adjustable and repositionable lateral 'wings' means that the therapist/clinician can ensure the right support in the right place for the user
- Slick and non-obtrusive yet provides the right amount of spine and lateral stability for many different postural needs
- Lightweight solid aluminum back support with quick-release hardware
- Wrap upholstery section gives conforming comfort
- Offers exceptional trunk stability
- Minimal contouring, and includes positioning kit for further postural enhancements
- Add headrests and other positioning supports if more support is required
- Approx. Mantaray weight is from 1.5 to 4 kg

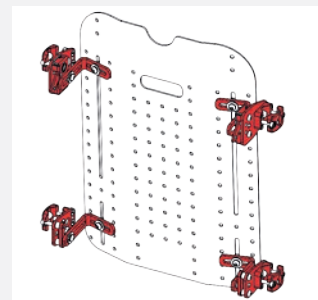
CONFORMING COMFORT



COLOURED COVERS AVAILABLE

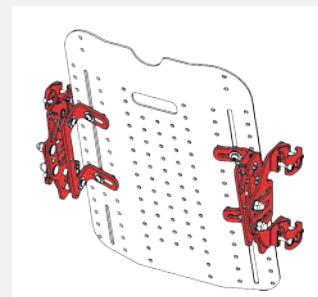


HARDWARE OPTIONS



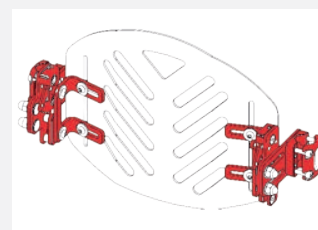
QUAD MOUNT (DEFAULT)

Default hardware with 4 points of attachment for ultimate strength.
#1259-2400-100



DUAL MOUNT (OPTION)

Increased adjustability, angle and growth.
#1259-2200-100



SINGLE MOUNT (OPTION)

For lower height backs, and as a lightweight option.
#1259-2100-100



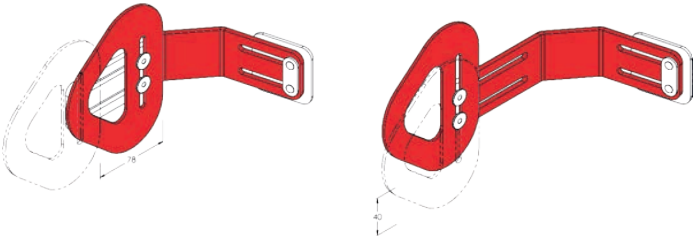
Dual-layer cover reduces **SHEAR FORCES** with air-mesh side panels to counter moisture and temperature

Solid back support with integrated **ADJUSTABLE LATERAL SUPPORTS**

Strong **VENTILATED SHELL** increases air flow through the back support offering daily comfort

SLOTS & HOLE POSITIONS on shell allow easy installation of head supports, lateral supports and harnesses

W/C Width	Height	Mantaray Back Support Code	Mantaray Spare Cover Code
12"	14"	1254-1214-000	1254-1214-000-C
	16"	1254-1216-000	1254-1216-000-C
14"	16"	1254-1416-000	1254-1416-000-C
	18"	1254-1418-000	1254-1418-000-C
16"	18"	1254-1618-000	1254-1618-000-C
	20"	1254-1620-000	1254-1620-000-C
17"	18"	1254-1718-000	1254-1718-000-C
	20"	1254-1720-000	1254-1720-000-C
18"	18"	1254-1818-000	1254-1818-000-C
	20"	1254-1820-000	1254-1820-000-C
20"	18"	1254-2018-000	1254-2018-000-C
	20"	1254-2020-000	1254-2020-000-C



MANTARAY WING ADJUSTABILITY

W/C Width	Depth Adjustment	Height Adjustment
Under 16"	50 mm	30 mm
16" and greater	78 mm	40 mm

Comfi Back Support

The Comfi back support foam system was developed to provide a simplistic approach to basic contouring needs while coupling this with Spex Air-Flow technology. Skin breakdown is most often caused by three combined extrinsic factors: Pressure, shear and moisture.

CLINICAL

- Designed for the individual who requires a solid back support to assist with mild to moderate postural needs
- Ideal to assist clients who may need pressure relief in identified areas
- The cut grid shape and configuration creates a mild suspension effect which provides comfort and increases sitting tolerance
- Suitable for geriatric users who need comfort, minor shaping and pressure-relieving back surface

FUNCTIONAL

- Comfortable pressure reducing foam surface layer to absorb bony prominences.
- Cubes allow tear-off function to remove pressure areas
- Dual-layer cover reduces shear forces
- Breathable air-mesh on back support sides counters moisture and temperature
- Swap out the upholstery unit at any future point to full Spex contouring system if required, utilising the same shell and mounting hardware.
- Approx. Comfi weight is from 1.5 to 4 kg

TEAR OFF CUBES

Ability to accommodate bony prominences or to relieve tender spots or lesions. Moulds without resistance to both concave and convex flexion.

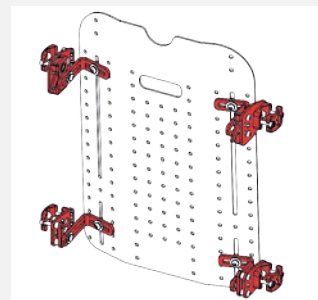


INSTANT IMMERSION

Auto-conforming of the foam support unit through the combination of thermosensitive foam and cube technology.

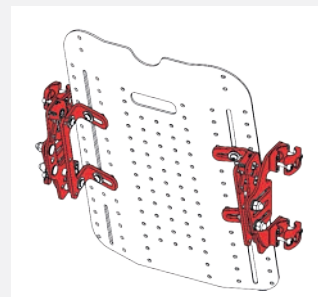


HARDWARE OPTIONS



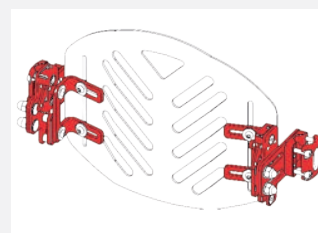
QUAD MOUNT (DEFAULT)

Default hardware with 4 points of attachment for ultimate strength.
#1259-2400-100



DUAL MOUNT (OPTION)

Increased adjustability, angle and growth.
#1259-2200-100



SINGLE MOUNT (OPTION)

For lower height backs, and as a lightweight option.
#1259-2100-100



Tear-off padding to assure **PRESSURE RELIEF** in identified areas

SMOOTH CONTOURING surface

BREATHABLE CUBES increase air flow through the back support offering daily comfort

Soft memory foam overlay to provide **COMFORT AND PRESSURE REDUCTION**

W/C Width	Height	Comfi Back Support Code	Spare Cover Code
10"	12"	1253-1012-00H	1253-1012-00H
"	14"	1253-1014-00H	1253-1014-00H
"	16"	1253-1016-00H	1253-1016-00H
12"	14"	1253-1214-00H	1253-1214-00H
	16"	1253-1216-00H	1253-1216-00H
	18"	1253-1218-00H	1253-1218-00H
14"	16"	1253-1416-00H	1253-1416-00H
	18"	1253-1418-00H	1253-1418-00H
	20"	1253-1420-00H	1253-1420-00H
16"	18"	1253-1618-00H	1253-1618-00H
	20"	1253-1620-00H	1253-1620-00H
	23"	1253-1623-00H	1253-1623-00H
17"	18"	1253-1718-00H	1253-1718-00H
	20"	1253-1720-00H	1253-1720-00H
	23"	1253-1723-00H	1253-1723-00H
18"	18"	1253-1818-00H	1253-1818-00H
	20"	1253-1820-00H	1253-1820-00H
	23"	1253-1823-00H	1253-1823-00H
20"	18"	1253-2018-00H	1253-2018-00H
	20"	1253-2020-00H	1253-2020-00H
	23"	1253-2023-00H	1253-2023-00H



Tessellated Positioning Kit

Spex has taken the concept of a tessellation, and applied this method to create contours for seating and positioning. This system can be added to any back support from the Spex range for additional contouring behind the existing upholstery padding.



Developed to be placed **BEHIND THE BACK SUPPORT SQUAB** (in front of the seat shell)



STACK AND CONFIGURE the shapes according to the user's needs

Positioning pack includes a number of different tessellations in **VARYING FOAM DENSITIES**

CLINICAL

Tessellated upgrade system can be used:

- To assist clients with mild postural needs when using a standard back support with flat padding
- In all situations where a supportive build-up foundation may be beneficial to assist positioning and comfort
- To improve sitting posture and enhance function (eg. Creating sacral/lumbar supports)

FUNCTIONAL

- Upgrade Vigour, Mantaray or Spex back supports in order to maximize stability, positioning, and seating tolerance
- Different densities are colour-coded for easy application

Black = Firm density

Grey = Medium density

Blue = Softer density

- Approx weight is 0.2 kg



W/C Width	Height	Tessellated Kit Code
10"	12"	1250-1012-000
"	14"	1250-1014-000
"	16"	1250-1016-000
12"	14"	1250-1214-000
"	16"	1250-1216-000
"	18"	1250-1218-000
14"	16"	1250-1416-000
"	18"	1250-1418-000
"	20"	1250-1420-000
16"	18"	1250-1618-000
"	20"	1250-1620-000
"	23"	1250-1623-000
17"	18"	1250-1718-000
"	20"	1250-1720-000
"	23"	1250-1723-000
18"	18"	1250-1818-000
"	20"	1250-1820-000
"	23"	1250-1823-000
20"	18"	1250-2018-000
"	20"	1250-2020-000
"	23"	1250-2023-000
Elements kit only for mounting directly to back shell		1250-3959-000

Contouring the Spex Back Support Surface

A special feature of the Spex back support is the adjustable contouring-cell cube system which incorporates into the upholstery unit of the backrest. Easy configurations are performed for asymmetrical trunk postures without the need for complicated custom/ bespoke seating.

The cover un-zips from the top of the back support and remains fixed to the shell whilst you remove the inner upholstery unit. Changes to the contouring are made on-the-spot for instant results.

Further postural enhancements to the degree and depth of contouring are achieved with the positioning kit of support wedges (included with every Spex back support).



Special cover design allows the contouring cube system to be removed through the top of the back support.



Instant changes can be implemented to configure the back support surface.



+ Add layers to build up areas where pronounced support is required.
- Remove layers where more immersion is required.



Customisations can be reconfigured at any time when postural needs change. Contouring doesn't move or slip out of adjustment.

FOR MILD BONY PROMINENCES



Showing front pressure-reducing surface

Without even adjusting the cube system, the Spex back support has slight contouring and integrates a comfortable pressure reducing foam surface layer to absorb mild bony prominences and asymmetries for uniform torso contact.

FOR IMMERSION



Showing contouring cells without the front foam surface

For individuals that require immersion into the backrest, simply adjust the cube contouring cell system to configure for a perfect fit and shape for the client's back.

FOR ASYMMETRY



Blank areas show where contouring pads can be fully removed, yet the foam surface still offers padded support

For asymmetrical or maladaptive postures, the contour can be arranged to provide the matching shape required to support the client's torso profile.

Spex Back Support

Easily solve upper torso needs for most wheelchair users with the Spex exceptional upholstery section. Incorporates the Spex cube contouring cell system to allow on-the-spot customisations for torso comfort and asymmetry needs.

CLINICAL

Designed for the individual who:

- Requires a comfortable back support to reduce torso pain.
- Requires spinal alignment and support.
- Has skin breakdown/pressure care needs.
- Has bony or protruding skeletal prominences.
- Have changing postural needs
- Pertains a maladaptive or asymmetric posture

FUNCTIONAL

- Comfortable pressure reducing foam surface layer to absorb bony prominences.
- Cube contouring cell system provides configurations for a perfect fit and shape for the client.
- Customisation to contouring are performed on-the-spot.
- Created as the solution-solver for asymmetrical back postures.
- Modular componentry means you can 'mix and match' with different lateral pad options and positioning supports.
- Offers exceptional back/shoulder contact.
- Sustainable choice for issuing to other users
- Dual-layer cover reduces shear forces, and breathable air-mesh on back support sides counters moisture and temperature
- Approx. Spex back support weight is from 1.3 to 3.8 kg

RECTANGLE SHAPE

Fits between wheelchair canes

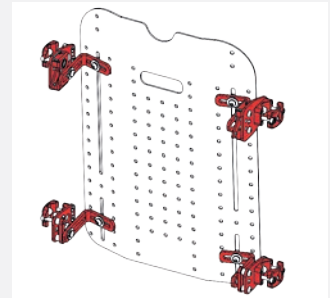


T SHAPE

Sits in front of wheelchair canes

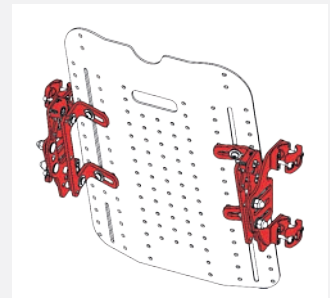


HARDWARE OPTIONS



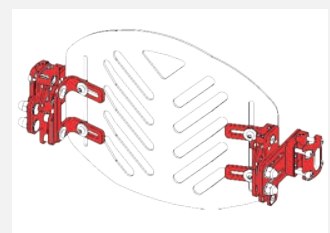
QUAD MOUNT (DEFAULT)

Default hardware with 4 points of attachment for ultimate strength.
#1259-2400-100



DUAL MOUNT (OPTION)

Increased adjustability, angle and growth.
#1259-2200-100



SINGLE MOUNT (OPTION)

For lower height backs, and as a lightweight option.
#1259-2100-100



Dual-layer cover reduces **SHEAR FORCES** with air-mesh side panels to counter moisture and temperature

Add laterals as required from our **LARGE MODULAR RANGE**

Strong **VENTILATED SHELL** increases air flow through the back support offering daily comfort

SLOTS & HOLE POSITIONS on shell allow easy installation of head supports, lateral supports and harnesses

W/C Width	Height	Rectangle Shape Backrest Code	Rectangle Shape Spare Cover Code	T Shape Backrest Code	T Shape Spare Cover Code
10"	12"	1255-1012-OSS	1255-1012-OSS-C	1255-1012-OTS	1255-1012-OTS-C
"	14"	1255-1014-OSS	1255-1014-OSS-C	1255-1014-OTS	1255-1014-OTS-C
"	16"	1255-1016-OSS	1255-1016-OSS-C	1255-1016-OTS	1255-1016-OTS-C
12"	14"	1255-1214-OSS	1255-1214-OSS-C	1255-1214-OTS	1255-1214-OTS-C
	16"	1255-1216-OSS	1255-1216-OSS-C	1255-1216-OTS	1255-1216-OTS-C
	18"	1255-1218-OSS	1255-1218-OSS-C	1255-1218-OTS	1255-1218-OTS-C
14"	16"	1255-1416-OSS	1255-1416-OSS-C	1255-1416-OTS	1255-1416-OTS-C
	18"	1255-1418-OSS	1255-1418-OSS-C	1255-1418-OTS	1255-1418-OTS-C
	20"	1255-1420-OSS	1255-1420-OSS-C	1255-1420-OTS	1255-1420-OTS-C
16"	16"	1255-1616-OSS	1255-1616-OSS-C	1255-1616-OTS	1255-1616-OTS-C
	18"	1255-1618-OSS	1255-1618-OSS-C	1255-1618-OTS	1255-1618-OTS-C
	20"	1255-1620-OSS	1255-1620-OSS-C	1255-1620-OTS	1255-1620-OTS-C
	23"	1255-1623-OSS	1255-1623-OSS-C	1255-1623-OTS	1255-1623-OTS-C
17"	18"	1255-1718-OSS	1255-1718-OSS-C	1255-1718-OTS	1255-1718-OTS-C
	20"	1255-1720-OSS	1255-1720-OSS-C	1255-1720-OTS	1255-1720-OTS-C
	23"	1255-1723-OSS	1255-1723-OSS-C	1255-1723-OTS	1255-1723-OTS-C
18"	18"	1255-1818-OSS	1255-1818-OSS-C	1255-1818-OTS	1255-1818-OTS-C
	20"	1255-1820-OSS	1255-1820-OSS-C	1255-1820-OTS	1255-1820-OTS-C
	23"	1255-1823-OSS	1255-1823-OSS-C	1255-1823-OTS	1255-1823-OTS-C
20"	18"	1255-2018-OSS	1255-2018-OSS-C	1255-2018-OTS	1255-2018-OTS-C
	20"	1255-2020-OSS	1255-2020-OSS-C	1255-2020-OTS	1255-2020-OTS-C
	23"	1255-2023-OSS	1255-2023-OSS-C	1255-2023-OTS	1255-2023-OTS-C

SuperShape® Back Support

SuperShape® provides an extra supportive wheelchair back solution with Shape Technology for contouring to provide postural integrity, pressure relief and comfort. Successfully meets individual trunk shapes of users with complex postural needs. SuperShape® is a seating system that can be fitted and changed anywhere and at any time.

CLINICAL

Designed for the individual who:

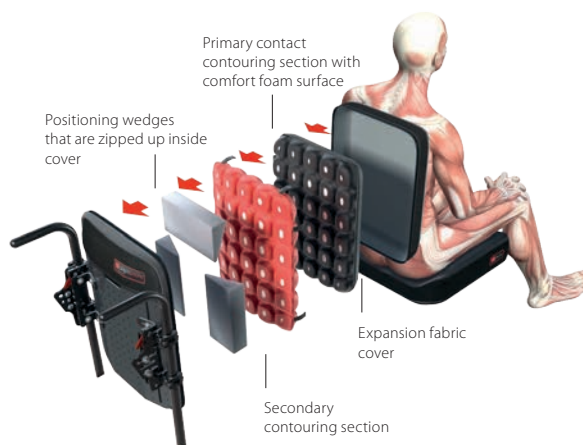
- Has complex postural needs
- Has significant spinal or trunk asymmetries
- Has protruding skeletal prominences
- Risks skin breakdown and has pressure care requirements
- Requires greater immersion into back support for stability and comfort
- Requires torso pain reduction

FUNCTIONAL BENEFITS

- Expansion fabric cover that allows all kind of contouring without compromising skin protection
- Comfortable pressure reducing foam surface layer to absorb bony prominences
- Triple-layered cube contouring cell system provides configurations for a perfect fit and shape for the client
- Customisation to contouring are performed on-the-spot, as many times as you want.
- Created as the solution-solver for asymmetrical back postures
- Modular componentry means you can 'mix and match' with different lateral pad options and positioning supports
- Deep contour solution which offers exceptional contact to contoured areas of the body

ACCESSORIES

- Spare outer cover
- Extra positioning wedges
- Lateral supports, head supports - options from Spex range



MODERATE NEEDS



Contouring of the cushioning is provided by creating areas of greater or lesser support with adjusting the multiple layered padded pocket cells

COMPLEX NEEDS



On-the-spot contouring allows the patient to adopt their preferred posture for maximum function and comfort.

CUSTOM NEEDS



SuperShape's simple method accomplishes superior seating results by accurately contouring to the complex shapes seen in highly involved clients.

Contouring of the cushioning is essential to apply intimate surface contact to areas of the body which are contoured.

The padded moulding structure is comprised of a three-layered Spex cube contouring substrate.



Looks are deceiving. It looks like another smart Spex product, however the SuperShape® has concealed technology!

Best result is achieved by creating areas of greater or lesser support with the adjustment of the multiple layered padded pocket cells.

The front padded surface has a super-soft viscoelastic foam for enhanced trunk immersion and comfort.



HOW SUPERSHAPE® WORKS:

- SuperShape® back support can be fitted to virtually any wheelchair chassis
- Contouring system comprises of three layers of pockets whereby padding can be increased or decreased to provide different shapes to suit any individual
- Contouring can effectively make an intimate interface contact for even pressure distribution and comfort
- Easily adapted to accommodate complex postural needs such as kyphosis, scoliosis, hyperlordosis
- Angle, depth and height adjustable
- Breathable, washable cover
- Sizes available from 10" to 20" and in different heights for each width. Approx. SuperShape weight is from 1.6 to 4.5 kg
- Choose from a large range of lateral supports and head supports

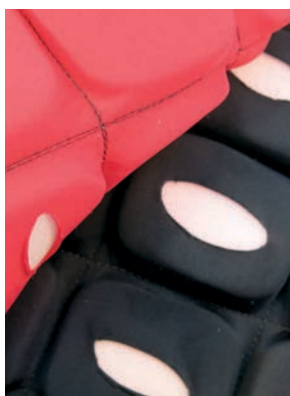
SOLVE COMPLEX CASES:

- SuperShape® can adapt to changing needs and provide enough stability for complex and asymmetric postures
- With the large range of Spex support options available, it is possible to start building a seating system using out-of-shelf products and then size and adjust them to achieve a one-of-a-kind fit for complex postural needs' users
- Easy set-up and optimum interfacing with a range of wheelchair chassis
- Wide range of adjustment for growth and changing needs
- Wide range of lateral supports (sizes, models and adjustments)
- Robust and durable
- Comfortable and pressure relief





Expansion fabric cover that allows all kinds of contouring without compromising skin protection.



Contouring pockets provide easy adjustment, and positioning will not slip or move once completed.



Triple-layered cube contouring cell system provides configurations for a perfect fit and shape for the client.



2 densities of contouring pads included in every kit to ensure correct personal fitting.

W/C Width	Height	Back Support Code	Back Support Spare Cover Code
10"	12"	1256-1012-OSS	1256-1012-OSS-C
"	14"	1256-1014-OSS	1256-1014-OSS-C
"	16"	1256-1016-OSS	1256-1016-OSS-C
12"	12"	1256-1212-OSS	1256-1212-OSS-C
"	14"	1256-1214-OSS	1256-1214-OSS-C
"	16"	1256-1216-OSS	1256-1216-OSS-C
"	18"	1256-1218-OSS	1256-1218-OSS-C
14"	14"	1256-1414-OSS	1256-1414-OSS-C
"	16"	1256-1416-OSS	1256-1416-OSS-C
"	18"	1256-1418-OSS	1256-1418-OSS-C
"	20"	1256-1420-OSS	1256-1420-OSS-C
16"	16"	1256-1616-OSS	1256-1616-OSS-C
"	18"	1256-1618-OSS	1256-1618-OSS-C
"	20"	1256-1620-OSS	1256-1620-OSS-C
"	23"	1256-1623-OSS	1256-1623-OSS-C
17"	16"	1256-1716-OSS	1256-1716-OSS-C
"	18"	1256-1718-OSS	1256-1718-OSS-C
"	20"	1256-1720-OSS	1256-1720-OSS-C
"	23"	1256-1723-OSS	1256-1723-OSS-C
18"	16"	1256-1816-OSS	1256-1816-OSS-C
"	18"	1256-1818-OSS	1256-1818-OSS-C
"	20"	1256-1820-OSS	1256-1820-OSS-C
"	23"	1256-1823-OSS	1256-1823-OSS-C
20"	16"	1256-2016-OSS	1256-2016-OSS-C
"	18"	1256-2018-OSS	1256-2018-OSS-C
"	20"	1256-2020-OSS	1256-2020-OSS-C
"	23"	1256-2023-OSS	1256-2023-OSS-C

Lateral Trunk Supports

Spex lateral trunk supports offer adjustability, comfort and positioning. Our anatomical pad design with new full curved Natural-Lateral® surface has been tested for optimum fitting to body shape. The supporting surface of each lateral pad includes a layer of pressure relieving foam for additional protection and comfort.

CLINICAL

- Modular lateral supports provide optimum trunk control whilst improving balance, posture and comfort
- Offset correction can be applied to an asymmetric trunk to bring better trunk alignment for enhanced function

FUNCTIONAL

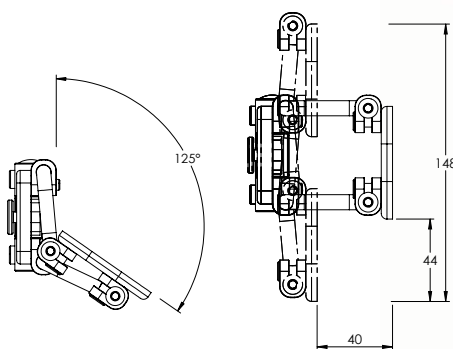
- Super comfortable pressure-reduction padding for moulding to user shape
- Removable and washable covers
- Brackets are adjustable in all planes: height, width, depth and lateral angle for ultimate trunk orientation
- Spex brings you modular creativity! Mix and match with different pad combinations
- Provide trunk control and stability with the ability to install a lateral in multiple positions on the back support
- Approx. lateral hardware weight is from 0.15 to 0.45 kg, and approx. lateral pad weight is from 0.05 to 0.3 kg

OPTIONS

- Select from Fixed, Standard Swing-Away or Axial® Swing-Away Hardware
- Bracket upgrades available:
 - Cane Mount
 - DeepContour backrest bracket
 - Extension for DeepContour (commonly used with SuperShape backrest)

AXIAL® TECHNOLOGY

Unique swing-away hardware that allows the lateral pad to rotate to correctly support/align to the user's trunk needs.



HARDWARE OPTIONS



FIXED

Width and depth adjustable



STANDARD SWING-AWAY

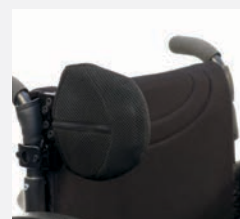
Width and depth adjustable with vertical pivot adjustment.



AXIAL® SWING-AWAY

Width, depth, and multiple angle adjustable by its rotational system.

Axial® technology provides the correct support structure with patented mechanically rotational system.



CANE MOUNT

Mounts directly to wheelchair canes

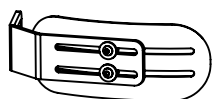


Anatomical full-curve
NATURAL-LATERAL®
technology for optimum
fitting to body shape

Comfort to new levels with
PRESSURE-REDUCING layer

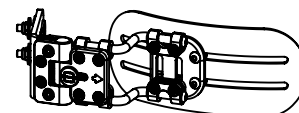
Huge pad range to provide
the exact **SNUG FITTING**
comfort that's required (refer
Page 28)

FIXED LATERAL HARDWARE



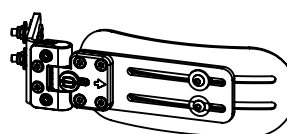
Options (Add pad, shown on Pg 28)	Depth Ad- justment	Code
Fixed Bracket	55 mm	1266-2101-100
Kidz Fixed Bracket	40 mm	1266-2111-100

AXIAL LATERAL HARDWARE



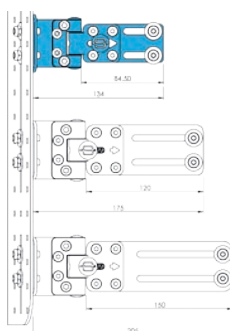
Options (Add pad, shown on Pg 28)	Code
Axial Hardware	1266-2301-100
Kidz Axial Hardware	1266-2311-100

SWING-AWAY LATERAL HARDWARE



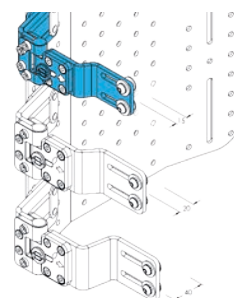
STANDARD

Options (Add pad, shown on Pg 28)	Overall length	Plate Length	Code
Swing-Away, straight bracket	175 mm	120 mm	1266-2201-100
Swing-Away, kidz straight bracket	134 mm	85 mm	1266-2211-100
Swing-Away, straight extended bracket	205 mm	150 mm	1266-2202-100



OFFSET When lateral support is
required to sit closer towards the user's
trunk to provide support

Options (Add pad, shown on Pg 28)	Offset	Code
Swing-Away, offset bracket	20 mm	1266-2203-100
Swing-Away, kidz offset bracket	15 mm	1266-2213-100
Swing-Away, offset extended bracket	40 mm	1266-2204-100



Lateral Support Pads

Anatomical pad design with new full curved Natural-Lateral® surface has been tested for optimum fitting to body shape. Huge lateral support pad range to provide the exact fit required.



STANDARD COVER

- Pictured above. Removable and washable cover option.

COMFY-COVER

Exclusive Comfy-Covers are available for all laterals (pictured right):

- Extended padding over mechanism to protect arms from the metal hardware
- Clever release strap for operating the swing away movement.
- Easy release for users who have limited hand function and need independent use to open the laterals for transfers

Pad Style	Size	Pad Height	Pad Depth	Pad & Std Cover	Pad & Comfy-Cover
Narrow Straight	0	85 mm	115 mm	1266-3010-400	1266-3010-800
"	1	95 mm	145 mm	1266-3011-400	1266-3011-800
"	2	95 mm	180 mm	1266-3012-400	1266-3012-800
"	3	115 mm	210 mm	1266-3013-400	1266-3013-800
"	4	115 mm	240 mm	1266-3014-400	1266-3014-800
Narrow Curved	1	95 mm	145 mm	1266-3021-400	1266-3021-800
"	2	95 mm	180 mm	1266-3022-400	1266-3022-800
"	3	115 mm	210 mm	1266-3023-400	1266-3023-800
"	4	115 mm	240 mm	1266-3024-400	1266-3024-800
Broad	1	105 mm	130 mm	1266-3031-400	1266-3031-800
"	2	125 mm	140 mm	1266-3032-400	1266-3032-800
"	3	140 mm	150 mm	1266-3033-400	1266-3033-800
"	4	160 mm	155 mm	1266-3034-400	1266-3034-800
"	5	195 mm	165 mm	1266-3035-400	1266-3035-800
"	6	230 mm	175 mm	1266-3036-400	1266-3036-800

LATERAL PAD OPTIONS



NARROW STRAIGHT
Freedom to move forwards and backwards for functional activities and transfers



NARROW CURVED
Anterior support for increased comfort and spinal extension

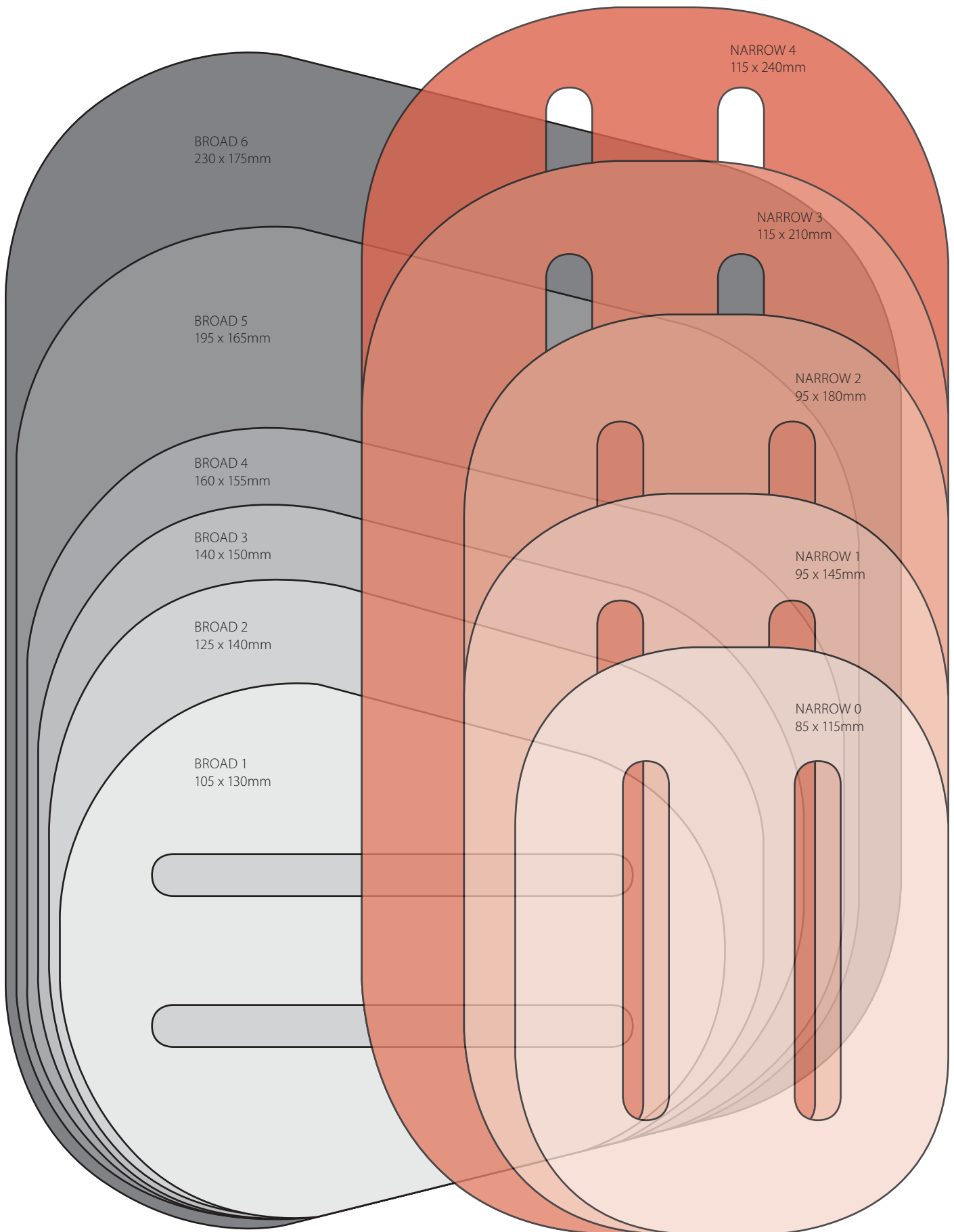


BROAD
Provides long trunk support and effective pressure reduction

COMFY-COVER OPTION



Life-Size Lateral Template



Spex provides the tools to make decisions for faster results, including this lateral pad size guide to scale. When deciding which lateral support pad style and size will suit your clients, place this page against their torso to make an informed decision on the spot!



Transport Certified

WC20

The Spex Seating System complies with RESNA WC-4:2012, Section 20. Spex™ is designed only for use with wheelchair frames that have been successfully crash tested to the frontal-impact requirements of RESNA WC-4:2012, Section 19.

Spex Seating Systems must be used on a wheelchair frame that provides four securement points and pelvic-belt anchor points that conform to the requirements of RESNA WC-4:2012, Section 19.

Spex components that are WC20 certified for use during motor vehicle transportation include: Backrest, Grid-Base Seat Pan, Cushion, Thigh & Arm Supports, Trunk Supports and Head Support. The seating system is designed to be occupied when the wheelchair is facing forward in motor vehicles.

The seating system has been designed to accommodate the proper use of vehicle-anchored belt restraints and the ratings of the seating systems with regard to a) ease of properly positioning vehicle-anchored belt restraints on the wheelchair passenger, and b) the degree to which proper positioning of belt restraints can be achieved.

ISO 16840-4

Spex Seating is intended only for use with wheelchair bases tested as part of a complete wheelchair system that conforms to the performance requirements of ISO 7176-19.

Spex Seating Systems must be used on a wheelchair base that provides securement points that conform to the design requirements of ISO 7176-19.

Spex components that are ISO 16840-4 certified for use during motor vehicle transportation include: Backrest, Grid-Base Seat Pan, Cushion, Thigh & Arm Supports, Trunk Supports and Head Support. The seating system is designed to be forward facing when used with a wheelchair base in a motor vehicle.

A wheelchair tie down and occupant restraint system (WTORS) that conforms to the requirements of ISO 10542-1 must be used during wheelchair transportation with this seating system.

When tested in accordance with Annex D of ISO 16840-4 with regard to accommodating vehicle-anchored occupant restraints, Spex Seating achieved an overall score of 16 out of 16, and a rating of A (Good).



Note: Back supports that are lower than the user's shoulder height are not certified and not recommended for transport in a vehicle. e.g. Vigour Lo and Vigour Mid back supports.

Grid-Base Seat Pan

Crash tested and certified for forward facing transportation in a motor vehicle to WC20 & ISO16840-4 standards, the Spex Grid-Base Seat Pan gives the wheelchair chassis the structural foundation to build any configuration of seating.



CLINICAL

- Provides stability and a solid foundation for the cushion to ensure no sag is present when the user is seated
- Allows pressure distribution through over the entire cushion, avoiding pressure in any specific area
- Ensures stability for build up seating cushions

FUNCTIONAL

- Grid hole positions allow multiple uses for mounting support hardware eg. lateral pelvic/thigh supports, medial thigh support, etc
- One hardware system that is either quick-release or non-removable
- Rear cutout sections around back support cane mounts
- 4 point fixation. Front 2 quick-release pins provide fast sliding removal from the wheelchair
- Designed for both folding and fixed chairs
- Approx. weight is 2.5 kg

W/C Width	Length	Code	Maximum User Weight	Width adjustment
10"/11"	10"	1007-1012-100	90 kg/200 lb	Up to 3.5"
12"/13"	12"	1007-1212-100	90 kg/200 lb	Up to 3.5"
"	14"	1007-1214-100	90 kg/200 lb	Up to 3.5"
14"/15"	14"	1007-1414-100	90 kg/200 lb	Up to 3.5"
"	16"	1007-1416-100	90 kg/200 lb	Up to 3.5"
16"/17"	16"	1007-1616-100	136 kg/300 lb	Up to 3.5"
"	18"	1007-1618-100	136 kg/300 lb	Up to 3.5"
18"/19"	18"	1007-1818-100	136 kg/300 lb	Up to 3.5"
"	20"	1007-1820-100	136 kg/300 lb	Up to 3.5"
20"/21"	20"	1007-2020-100	136 kg/300 lb	Up to 3.5"

FUNCTIONAL BENEFITS

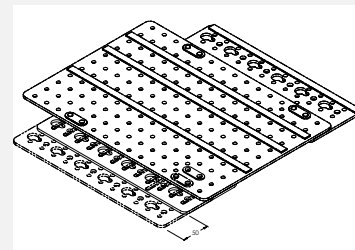
GRID OF HOLES

For ease of installing auxiliary supports



WIDTH-ADJUSTABLE

For future growth



EASY LEVER-LATCH RELEASE SYSTEM

With durable aluminium hardware



SIMPLE REMOVAL

When removed, no hardware remains on seat pan.



Medial Thigh Support

The Spex medial thigh support is a wedge shape that can be attached to the front of the wheel-chair seat. It should be used to keep the user's legs in the correct position to maintain a neutral pelvis. Provides a comfortable yet firm knee and medial thigh support through a soft padding and removable washable cover.



CLINICAL

- Should be used with clients who experience a variety of movement disorders, fluctuating muscle tone, spasticity or contractures
- Assists to align the heads of the femurs with the acetabulum providing symmetrical hip abduction for proper posture
- Abduction allows equal weight bearing through both ischial tuberosities and thighs, thus permitting better pressure distribution
- Provides a wider, more stable support base for the upper body while limiting contractures and deformities that could interfere with function
- In hip dysplasia cases, luxation or dislocation; provides comfort and reduces pain
- Not to be used as a way to prevent or limit forward sliding. Should be installed clear of the groin area

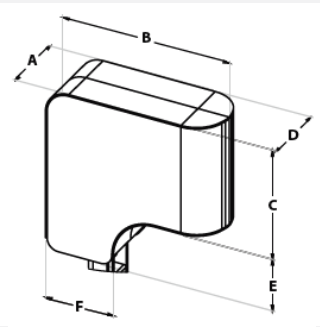
FUNCTIONAL

- Depth adjustable convenience combined with flip down hardware, which can then pull off the mount to allow an unimpeded transfer (pull-off feature can be locked with a bolt if not required)
- Easy access release hardware which can be mounted to a seat pan
- Huge height range for high profile cushions

Pad Style	Pad Size	Code	A	B	C	D	E	F
Standard	1	1162-1501-000	60 mm	145 mm	95 mm	40 mm	40 mm	65 mm
"	2	1162-1502-000	60 mm	155 mm	100 mm	60 mm	50 mm	65 mm
"	3	1162-1503-000	60 mm	185 mm	105 mm	60 mm	60 mm	75 mm
Axial-Adjust	1	1162-1601-000	70-140 mm	145 mm	95 mm	50-120 mm	40 mm	65 mm
"	2	1162-1602-000	70-140 mm	155 mm	100 mm	60-140 mm	50 mm	65 mm
"	3	1162-1603-000	70-160 mm	185 mm	105 mm	60-140 mm	60 mm	75 mm

PAD OPTIONS

STANDARD PAD
Refer table below for size options.



Approx. weight is from 0.8 to 1.1 kg

AXIAL-ADJUSTABLE PAD
Shown below without cover. Unique expansion fabric cover allows multiple adjustments.



Offset and swivel for asymmetric positions. Infinite adjustments.

Approx. weight is from 0.95 to 1.25 kg

Head Support

Provide adequate neck and head control simply with the Spex head support system. Clever use of twin ball-joints means the head pad can be orientated to where the optimal support is needed.

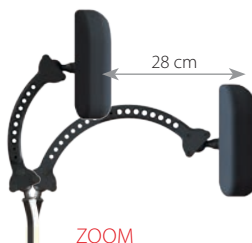


FUNCTIONAL

- Softly padded foam inner head support, with supple upholstery covers
- Powerful clamp mechanism allows super-quick release and prevents lateral movement
- Extra strong and non-wobbly hardware
- No protruding bar at rear. Carer-friendly design doesn't harm anyone pushing the wheelchair
- Goose-necked stem permits additional fine-tuning, forward and rearward
- Select mechanism from either Standard (20 cm/8" forward range) or Zoom for extended reach (28 cm/11" forward range).
- Approx. head support weight is from 1.2 to 2.05 kg



STANDARD



ZOOM

Pad Style	Pad Size	Pad Width	Pad Height	Pad & Std Mechanism	Pad & Zoom Mechanism
Compact	-	250 mm	100 mm	1270-4131-000	1270-4231-000
Square	Small	200 mm	160 mm	1270-4111-000	1270-4211-000
"	Large	240 mm	200 mm	1270-4112-000	1270-4212-000
Contoured	Small	285 mm	115 mm	1270-4121-000	1270-4221-000
"	Large	340 mm	165 mm	1270-4122-000	1270-4222-000
Adjustable Lateral	Small	200 mm	160 mm	1270-4141-000	1270-4241-000
"	Large	240 mm	200 mm	1270-4142-000	1270-4242-000

SUPPORT PAD OPTIONS



COMPACT

Basic, compact head support for clients with good head control.



SQUARE

Unobtrusive yet provides good contact support.



CONTOURED

Offers close lateral and occipital support for clients with reduced head control.



ADJUSTABLE LATERAL

Lateral wings of the head support can be adjusted and locked at the desired position.

Lateral Thigh Supports

Spex wheelchair thigh supports are transport certified and designed to be installed to the seat pan or seat rail, enabling precise positioning for the user. Various configurations are available including our acclaimed Axial® hardware that enables full support for external hip rotation and wind-swept postures as well as preventing pelvic rotation tendency.

CLINICAL

- Facilitate good thigh alignment and stabilize the sitting posture
- Control hip abduction, moderate external hip rotation, reduces femur and greater trochanter lateral pressure into the wheelchair sideguards by its comfortable pad
- Prevent hip, pelvic and trunk rotation by stabilising the pelvis on the seating system
- In combination with trunk lateral supports, they assist to align the users posture, stabilizing upper body and providing functionality

FUNCTIONAL

- Hardware can be configured various ways to suit different pelvic and thigh patterns
- Arm supports can be upgraded to the hardware if necessary
- Hardware is available in fixed or axial adjustment. Axial® hardware reduces the seat width by 0 to 65 mm each side. Pad is 25 mm thick, and Axial® bars allow for up to 40 mm of adjustment
- Washable upholstery covers

Arm Supports

Arm supports provide functional forearm and upper extremity support. Modular system creates flexibility and takes into consideration the individual needs of all kinds of clients. Hardware can be combined with thigh support pads, if required.

CLINICAL

- By having arm supports in the correct position, bearing normal weight on the arm pads will provide better trunk alignment and support which improves posture
- Assist pelvic and trunk stability to reduce or redirect forces that lead to pressure sores
- Correct shoulder girdle stabilising
- In combination with tray table they assist to improve upper body stability essential to accomplishing tasks

FUNCTIONAL

- Spex hardware enables precise positioning of the arm support pads to ensure the user gains the correct positioning for function
- A variety of different hardware options allow specific functions tailored for the user
- Powered chair drive controllers can be easily installed
- Gain accurate width setting and infinite height setting for improved arm placement
- Approx. combo Thigh & Arm Support weight is 1.85 kg

FUNCTIONAL CHOICES FOR THIGH & ARM SUPPORTS



- Quick Release



- Flip-Down
Facilitate easy transfers



- Fixed

ARM SUPPORT CHOICES HEIGHT & ANGLE-ADJUST (PICTURED) OR HEIGHT-ADJUST AVAILABLE



- Multiple angle adjustments
for precise support.



UNIQUE ANGLE-ADJUSTABLE
arm support pad option

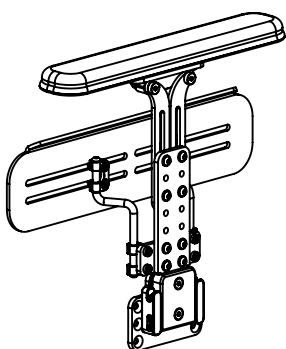
Support pad can orientate
to **CORRECTLY ALIGN** pelvis/
thigh positioning

PRESSURE REDUCTION pad
for comfort at bony areas

Spex Axial technology to
maintain **PRECISE SUPPORT**

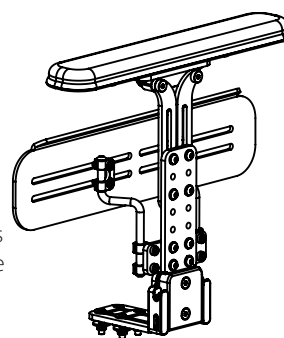
SEAT RAIL MOUNT

Option for thigh/
arm support
hardware. Mounts
vertically to the
seat rail on most
power chairs.



SEAT PAN MOUNT

Option for thigh/
arm support
hardware. Mounts
horizontally to the
seat pan of most
wheelchairs.



THIGH SUPPORT PADS

SIZE	WIDTH	DEPTH
10"	75 mm	250 mm
12"	80 mm	300 mm
14"	90 mm	350 mm
16"	100 mm	400 mm
18"	100 mm	430 mm
20"	100 mm	450 mm

ARM SUPPORT PADS

SIZE	WIDTH	DEPTH
SML, Slim	40 mm	250 mm
MED, Slim	50 mm	300 mm
LGE, Slim	60 mm	350 mm
SML, Wide	70 mm	250 mm
MED, Wide	80 mm	300 mm
LGE, Wide	90 mm	350 mm

Anterior Trunk & Pelvic Positioning Tips



ANTERIOR PELVIC POSITIONING

The Hip Belt is the primary anterior support in seating, as it helps to maintain the stability of the pelvis. Proper placement and use of anterior pelvic supports may prevent sliding into maladaptive, unsafe, or non-functional postures.

- For maximum effect, position the attachment points of the Hip Belt as close to the user as possible.
- Positioning the main (wide) straps below the ASIS reduces the possibility of the pelvis slipping under the belt.
- The selection and set-up of the cushion and backrest influences the position and stability of the pelvis.
- Approx. hip belt weight is from 0.15 to 0.5 kg

ANTERIOR TRUNK POSITIONING

Anterior upper body support is used to maintain spinal alignment over a stable pelvis. Increasing trunk support for proximal stability has been proven to increase upper extremity function.

These are sometimes necessary to maintain an upright trunk and head for functional use of arms, vision, breathing and feeding for individuals who pull or fall forward.

- Attaching the lower straps of the harness to the backrest shell rather than the wheelchair frame provides a more snug fit.
- Shoulder strap guides hold the harness in position over the user's shoulders.
- Approx. harness weight is from 0.25 to 0.55 kg



THE SPEX ADVANTAGE

- Soft comfortable pads offer excellent resilience, water resistance, and **CONFORM TO THE BODY** without creasing.
- Durable webbing is 'ridge' woven for **MAXIMUM GRIP** once adjusted.
- **TOUGH** Stainless Steel Adjusters.
- Attachment hardware included with every Hip Belt allows a multitude of positioning options
- Smooth, soft binding is **COMFORTABLE** against sensitive skin.
- Sleek pad design reduces coverage to **MINIMISE SWEATING**
- Harness follows **NATURAL CONTOURS** of the body
- **DYNAMIC FABRIC** accommodates movement while maintaining positioning.

Wickable fabric transports moisture away from the skin



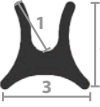

Anterior Trunk Positioning

Unique harness designs suit a wide scope of requirements for postural restraint and support.



FUNCTIONAL

- Pads follow natural contours of the body, with sleek design to minimise sweating
- Soft edge binding to reduce chafing, while heavy duty webbing will resist the twist
- Maintain and encourage spinal alignment over a stable pelvis

	Size	Code	Spec (1)	Spec (2)	Spec (3)	W/C Width	Image
H-HARNESS	XSML	1409-6640-017		27 cm		8" - 12"	
	SML	1409-6641-017		30 cm		11" - 15"	
	MED	1409-6642-017		36 cm		14" - 17"	
	LGE	1409-6643-017		42 cm		17" - 20"	
	XLGE	1409-6644-017		48 cm		20" +	
RETRACTOR HARNESS	SML	1409-6621-017		32 cm		11" - 15"	
	MED	1409-6622-017		38 cm		14" - 17"	
	LGE	1409-6623-017		44 cm		17" - 20"	
	XLGE	1409-6624-017		50 cm		20" +	
VEST HARNESS	XSML	1409-6610-017	15 cm	24 cm	24 cm	8" - 12"	
	SML	1409-6611-017	20 cm	32 cm	32 cm	11" - 15"	
	MED	1409-6612-017	26 cm	40 cm	40 cm	14" - 17"	
	LGE	1409-6613-017	30 cm	48 cm	48 cm	17" - 20"	
CENTRE-POINT HARNESS	XSML	1409-6660-017	23 cm	26 cm	22 cm	8" - 12"	
	SML	1409-6661-017	29 cm	36 cm	32 cm	11" - 15"	
	MED	1409-6662-017	34 cm	40 cm	36 cm	14" - 17"	
	LGE	1409-6663-017	40 cm	45 cm	42 cm	17" - 20"	
	XLGE	1409-6664-017	45 cm	50 cm	50 cm	20" +	

SHOULDER STRAP GUIDES

Recommended for any harness choice to prevent shoulder straps falling off shoulders. Height adjustable and fit both 1" and 1.5" straps.

1400-6692-000



HARNESS OPTIONS



H-HARNESS
Minimalist option with good adjustment.



RETRACTOR HARNESS
Encourages retraction of the shoulders.



VEST HARNESS

- Greater coverage across the chest area where support is needed
- Low neck design for safety
- Stomach clearance comfort cutout



CENTREPOINT HARNESS

- Follows natural contours of the body and has clearance for items such as stomach feeding tubes
- Can be independently operated by the user

Anterior Pelvic Positioning

Manufactured with top precision quality, the Spex Hip Belt range caters for a wide range of positioning needs.



FUNCTIONAL

- Specially designed webbing and non-slip attachments
- Comfortable cushioned pads with unique soft edge binding
- Full range available: choose from 2- or 4-point, centre-pull, side-pull, and a range of buckle options and sizes

Hip Belt Style	X-Small Pad width 30 cm	Small Pad width 36 cm	Medium Pad width 46 cm	Large Pad width 56 cm
2 POINT UNPADDED	1404-6230-	1404-6231-	1404-6232-	1404-6233-
	Select buckle from -027, -028, -026, -025			
2 POINT PADDED CENTRE-PULL	1404-6210-	1404-6211-	1405-6212-	1405-6213-
	Select buckle from -027, -028, -026, -025			
2 POINT PADDED DUAL CENTRE-PULL	1405-6220-027	1405-6221-027	1405-6222-027	1405-6223-027
	Only available with side-release buckle			
4 POINT PADDED SIDE-PULL	1406-6400-	1406-6401-	1406-6402-	1406-6403-
	Select buckle from -027, -028, -026, -025			
4 POINT PADDED CENTRE-PULL	1406-6410-	1406-6411-	1406-6412-	1406-6413-
	Select buckle from -027, -028, -026, -025			
4 POINT PADDED DUAL CENTRE-PULL	1406-6420-027	1406-6421-027	1406-6422-027	1406-6423-027
	Only available with side-release buckle			

BUCKLE OPTIONS



Side-Release

-027

Simple and easy to click together and undo.



Centre-Release

-028

Robust design to keep the user positioned and safe.



Anti-Escape

-026

Prevent users with challenging behaviour from releasing the buckle.



Pen-Popper

-025

Requires a pen to prod the buckle mechanism to release open.

HIP BELT OPTIONS

UNPADDED
Basic hip belt2 POINT
CENTRE-PULL

User or carer operated. Tensions at centre of buckle. Suits clients with low muscle tone or weakness.

2 POINT
DUAL-CENTRE PULL

User or carer operated. Tensions from both sides at centre of buckle. Suits clients needing greater adjustment. Accommodates clothing/weight changes.

4 POINT
SIDE PULL

Carer operated. Tensions from the rear of the pad pulling towards the centre, for more severe needs. Suits clients with high muscle tone.

4 POINT
CENTRE PULL

User or carer operated. Tensions at centre of buckle. Suits clients with low muscle tone or weakness.

4 POINT DUAL
CENTRE PULL

User or carer operated. Tensions from both sides at centre of buckle. Suits clients needing greater adjustment. Accommodates clothing/weight changes.

Limb Stabilisers

Careful positioning of the feet is critical as it indirectly influences the position of the pelvis and affects the overall stability of the user.

FOOT-FASTS

- Soft comfortable pads contoured for a snug fit
- Buckle fastened and tension adjustable for quick fitting
- Attachment hardware included
- Posterior strap option adds extra stability to the user's foot

	Small	Medium	Large
FOOT-FASTS	1401-6161-017	1401-6162-017	1401-6163-017
FOOT-FASTS WITH POSTERIOR RETAINER STRAP	1401-6165-017	1401-6166-017	1401-6167-017
INNER CIRCUMFERENCE	15-23 cm	22-30 cm	26-38 cm

CALF STRAPS

- Padded with pressure-relieving foam infill
- Velcro® attachment
- Soft water resistant pad

Size	Height	Calf Strap Code	Size	Height	Calf Strap Code
10"	50 mm	1402-6170-017	17"	90 mm	1402-6174-017
12"	50 mm	1402-6171-017	18"	110 mm	1402-6175-017
14"	70 mm	1402-6172-017	20"	130 mm	1402-6176-017
16"	90 mm	1402-6173-017	Custom		1402-6177-017

HEEL LOOPS

- Quality webbing resists twisting
- Low, unobtrusive and secure
- Attachment hardware included
- Allows wheelchair footplates to be folded away without restrictions
- No protruding attachment pins

	Small	Medium	Large
HEEL LOOPS	1403-6181-017	1403-6182-017	1403-6183-017

FOREARM STRAPS

- Buckle fastened
- Adjustable straps
- Can attach with wood screws to wooden arm pads or through existing arm pad attachment points

	Small	Medium	Large
SET OF 4 FOREARM STRAPS	1408-6511-017	1408-6512-017	1408-6513-017
FOREARM STRAP - 1 ONLY	1408-6521-017	1408-6522-017	1408-6523-017



Foot-Fasts with Posterior Retainer Strap



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clinical wheelchair seating

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