

Choosing the Right Back Support for You

Our JAY range has offered superior postural support design since 1983.

JAY wheelchair backs provide stability in sitting to reduce fatigue and discomfort while optimizing propulsion performance. Go anywhere with confidence.

For more information visit: https://www.sunrisemedical.com/seating-positioning/jay



JAY J3

The J3™ Back is designed with a variety of contour depths, support heights, widths (ranging from 12" to 26") and support shapes to fit almost every user.



JAY ZIP

Lightweight, versatile and designed just for kids.



JAY J3 Carbon

Ultra lightweight and stylish backrest for active users.



JAY Care

Accommodate a client with a kyphotic thoracic spine.



JAY GO

Premium tension-adjustable backrest for greater support and comfort.



JAY J2 Deep Contour

Designed to provide posterior lateral pelvic stabilization along with enhanced trunk stability.

Whatever your seating needs, there's a JAY wheelchair back just for you.



Choosing the Right Back Support for You



Posterior Pelvic Tilt with Kyphosis



Common Factors:

- · Seat depth too long
- · Lack of support at lumbar spine
- Foot supports at incorrect height
- Increased/decreased trunkal tone
- Hip flexion to less than 90°
- Shortened hamstrings
- Back support too upright or tall

Anterior Pelvic Tilt with Hyperlordosis



Common Factors:

- · Back support too upright
- Excessive lumbar contouring
- Tight Quadriceps / Hip flexors, spinal extensors
- · Weak abdominals or low central tone

Pelvic Obliquity and Scoliosis



Common Factors:

- · Seat width too wide
- · Sling upholstery (slackened / stretched)
- Armrests too low
- · Lack of pelvic support under greater trochanters
- · Asymmetrical pain, ATNR

Reducible

Non-reducible

Support Goals Back

- · Correct flexible deformity
- · Reduce back or neck pain
- · Increase trunk stability and balance
- Maximize upper body function
- · Increase comfort and sitting tolerance
- · Promote skin integrity

- Accommodate fixed deformity
- · Reduce back or neck pain
- · Increase trunk stability and balance
- · Maximize upper body function
- · Increase comfort and sitting tolerance
- · Promote skin integrity

· Adjustable contouring -

to accommodate deformity

Reducible

Non-reducible

Goals Support

Clinical Back

- Correct flexible deformity restore correct spinal curves
- · Reduce back / neck pain
- · Increase trunk stability and balance
- Maximize upper body function
- · Increase comfort and sitting tolerance
- · Promote skin integrity

- Accommodate fixed posture
- · Reduce back or neck pain
- · Increase trunk stability and balance
- · Maximize upper body function - contact with pelvis and spine
- · Increase comfort and sitting tolerance
- · Promote skin integrity

Reducible

Non-reducible

Goals Clinical Back

- · Correct flexible deformity restore correct spinal curves
- · Reduce back / neck pain
- · Increase trunk stability and balance using 3-point force correction
- Maximize upper body function
- · Increase comfort and sitting tolerance
- · Promote skin integrity

- Accommodate fixed deformity
- · Reduce back / neck pain
- · Increase trunk stability and balance using 3-point force principle to support
- Maximize upper body function
- · Increase comfort and sitting tolerance
- · Promote skin integrity

pecific Feature Required

· Adjustable contouring to correct deformity

- Angle adjustable optimize trunk stability
- · Appropriate height support trunk to enable function
- · Depth adjustable improve lateral trunk stability
- Breathability reduce perspiration
- · Soft foam overlay increased comfort

- - Angle adjustable allow open seat-to-back
 - angle for stability · Appropriate height support trunk to enable function
 - Depth adjustable increase lateral stability
 - · Breathability -
 - reduce perspiration
 - · Soft foam overlay for comfort

Specific Features Required

- · Adjustable contouring to correct deformity and promote spinal curves
- Angle adjustable closed angle for support at PSIS / Lumbar region
- · Appropriate height sufficient support at PSIS / Lumbar region without compromising arm function
- Depth adjustable improve lateral trunk stability if required
- Breathability reduce perspiration
- · Soft foam overlay increased comfort

- Adjustable contouring to accommodate Hyperlordosis
- Angle adjustable closed angle for support at PSIS/Lumbar region
- Height provide support at PSIS / Lumbar region without
- compromising arm function · Horizontal depth adjustable bring backrest user to maximum support
- Breathability reduce perspiration
- · Soft foam overlay increased comfort

Specific Feature Required

- · Adjustable contouring to correct deformity and promote symmetrical spine
- Angle adjustable optimize trunk stability
- Appropriate height to enable placement of pads in 3-point force configuration
- Depth adjustable improve lateral trunk stability if required
- Breathability reduce perspiration
- · Soft foam overlay increased comfort

- Adjustable contouring to accommodate deformity
- Angle adjustable optimize trunk stability
- Appropriate height to enable placement of pads in 3-point force configuration
- Depth adjustable improve lateral trunk stability if required
- Breathability reduce perspiration
- Soft foam overlay increased comfort

Support





For firmer Solid Back



First option: Tension Adjustable



For firmer Solid Back Support with foam inserts



Solid Back Support Support



Tension Adjustable Back



Support

Solid Back Support



Solid Back Support









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REFERENCES:

Alkhateeb, Daher, N. S., Forrester, B. J., Martin, B. D., & Jaber, H. M. (2021). Effects of adjustments to wheelchair seat to back support angle on head, neck, and shoulder postures in subjects with cerebral palsy. Assistive Technology, 33(6), 326–332. https://doi.org/10.1080/10400435.2019.1641167

Lange, M. L., & Minkel, J. (2018). Seating and wheeled mobility: A clinical resource guide. Thorofare, NJ: Slack Incorporated.

Presperin Pedersen, Smith, C., Dahlin, M., Henry, M., Jones, J., McKenzie, K., Sevigny, M., & Yingling, L. (2022). Wheelchair backs that support the spinal curves: Assessing postural and functional changes. The Journal of Spinal Cord Medicine, 45(2), 194–203. https://doi.org/10.1080/10790268.2020.1760530

Ukita, Abe, M., Kishigami, H., & Hatta, T. (2020). Influence of back support shape in wheelchairs offering pelvic support on asymmetrical sitting posture and pressure points during reaching tasks in stroke patients. PloS One, 15(4), e0231860–e0231860. https://doi.org/10.1371/journal.pone.0231860

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