

Achieving the best seating and mobility system

What can an ultralight-weight manual wheelchair provide?

Multiple choices for seat widths/depths and back widths/heights provide an exact fit:

- Hold and maintain the pelvis and lower extremities in best alignment
- Prevent sliding into abnormal postures
- Provide stability to the trunk and allow maximum freedom of movement for upper extremities

Multi-adjustable axle position and adjustable back posts:

- Create incremental degrees of fixed tilt for gravity-assisted position
- Achieve best seat-to-floor height (STFH) for safe transfers and environmental access
- Provide open or closed seat-to-back angle (STBA) for support and/or to match individual's body angles for posture, stability and maximum pressure distribution across the seated surface

What can the appropriate seat cushion and back support provide?

A variety of shapes and contours:

- Hold the pelvis, trunk and LEs in midline, upright alignment and prevent abnormal postures
- Match the individual's shape and accommodate contractures and ROM limitations
- Provide proximal pelvic/trunk stability to allow functional mobility of the extremities

A variety of materials:

- Provide maximum pressure distribution and shear reduction to reduce peak pressures under bony prominences and decrease risk of skin/soft tissue injury
- Provide comfort to increase sitting tolerance, activity level and quality of life

A variety of medial, lateral, anterior and posterior secondary supports:

- Provide positioning to promote midline, upright posture and/or prevent progression of deformity
- Provide additional proximal stability for functional mobility of the extremities

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	Ultralight-weight with SmartDrive, cushion & back support	Group 2 PWC with captain's seating	POV with stadium seating
Seating and positioning options to prevent deformity and pressure injury	Wide range of sizes, contours, secondary supports and materials to tailor to each person's seating and skin protection needs	Limited sizes, limited contour, basic foam	One size, no contour, basic foam
Frame adjustments to improve posture / function	Multiple STBA angles, multiple angles of tilt, multiple rear wheel positions	Limited choices for STBA	None
Adjust to changing needs	Yes	No	No
Transport	Lightweight, can fit in most vehicles	Requires adapted vehicle, lift or ramp	Requires larger vehicle, lift or ramp, and disassembly
Accessibility	Most accessible	Less accessible	Less accessible



Appropriate style cushion

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Appropriate back support

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Correct model wheelchair

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Optimal seating and mobility system