

Ergo Lite 2 Tall Clinical Justification

Outing

Optimized for outings, featuring the S-Ergo Seating System to maintain posture and the ISO 7176-19 crash-test certification for secure vehicle transport.

S-Ergo Seating System, ergonomic contoured seat cushion structure design can distribute gluteal pressure, facilitate upright sitting posture and prevent forward sliding.

Easy trunk storage and transport: The frame is foldable with a **fold-back backrest** design, reducing volume with remaining trunk space available. The lightest single piece is only 6.7 kg.

Lightweight structure: Aluminum alloy frame is lightweight and sturdy, with components (e.g., legrests) that can be quickly detached, reducing maximum single-piece weight and minimizing caregiver burden.

Suitable for sedans and SUVs: Compact folded dimensions fit most family sedans or SUV cargo areas.

Recommendation: For frequent storage needs, consider the small-wheel model (typically lighter).

For users requiring transport, the keys to vehicle safety are four-wheel lockdown and seatbelt securement. Ergo Lite 2 Tall has **crash test certification compliant with ISO 7176-19**. Always use vehicles with wheelchair-specific tie-down systems and lock wheelchair brakes. Occupants must wear a vehicle three-point seatbelt, ensuring the lap belt crosses the hip bones and shoulder belt crosses the chest, to ensure safe travel.

Accessory / Feature	Clinical Application for Amputation
<p>S-Ergo Seating System</p>	<p>Users with poor sitting endurance or insufficient trunk muscle strength are prone to posterior pelvic tilt and forward sliding in sitting position. The S-curve design distributes some pressure at the ischial tuberosity to the thigh, achieving basic pressure relief. The design of the front seat higher than the rear assists with sitting positioning and reduces the risk of forward sliding.</p>
<p>Foldable Backrest</p>	<p>The foldable backrest design reduces overall volume and allows handlers to keep the folded wheelchair closer to their center of gravity, helping to prevent lumbar and shoulder muscle injuries during carrying.</p> <p>Along with foldable frame, the volume allow the wheelchair to be easily transported. This enables elderly users to participate in family gatherings, medical appointments, follow-up visits, or outdoor activities, improving mental health and rehabilitation motivation.</p> <p>Minimum storage dimensions: 720 x 230 x 690 mm Mass of the heaviest part: 6.9 kg</p>
<p>Foldable Headrest</p>	<p>Provides a support platform for users with poor head/neck control or low muscular endurance, achieving postural stability and rest, reduces fatigue and improves sitting tolerance, thereby improving social activities and quality of life.</p>
<p>Detachable Swing-away Footrest</p>	<p>The entire support structure can be swung outward and detached. Swinging the legrests away allows the wheelchair to be positioned closer to the target surface (e.g., toilet or hospital bed), shortening the physical transfer distance and reducing risk for both the caregiver and the user.</p> <p>This standard legrest has slight knee extension angle, providing sufficient ground clearance.</p>
<p>Heel Loop</p>	<p>Offers firm heel support to prevent the foot from sliding off the footplate.</p>

<p>Rear Wheel Size Options</p>	<p>Balancing self-propulsion and transfers: 14-inch small wheels are designed for users who are caregiver-dependent, have upper-limb weakness, or have cognitive impairment preventing independent operation. Addresses space and weight concerns — without hand rims, the overall wheelchair width is significantly reduced, allowing passage through extremely narrow doorways; additionally, smaller wheels reduce the total wheelchair weight, substantially decreasing lumbar strain for caregivers who frequently need to load the wheelchair into vehicles.</p> <p>22" rear wheels is suitable for users with upper extremity self-propel capability. Larger wheel diameter provides a longer lever at the handrim contact point, reducing propulsion effort and increasing propulsion efficiency.</p>
<p>Quick-Release Rear Wheel</p>	<p>Separates transport weight into frame and wheels; after removing the rear wheels, the frame weight is reduced by approximately 3-4kg. This addresses the physical burden of excessive weight, reducing the effort of caregiving tasks.</p> <p>Reduces the wheelchair's folded volume and weight, providing easy vehicle transport.</p>
<p>Push & Pull Brake</p>	<p>Caregivers can lock the wheelchair while in the pushing position, reducing risks of lower back strain from repeatedly bending over to operate the brake lever, improving caregiver convenience and safety in wheelchair operation.</p>
<p>Ergo Anti-tipper</p>	<p>A single foot press locks the anti-tipper, preventing the wheelchair from tipping over; pressing again releases it, allowing tilting for curb climbing.</p> <p>Reduces the lower back strain on caregivers from repeatedly bending to adjust anti-tippers, increasing caregiving safety and convenience.</p>
<p>Reflective Side Guards</p>	<p>Provides additional visual warning for others during early morning, evening, or nighttime outdoor walks.</p>
<p>Net Bag</p>	<p>Provides portable storage space for users with foley drainage bag and/ or spare medications. During rehabilitation can be used to store detached legrests.</p>

**Crash Test Approved
(ISO 7176-19)**

Certified to ISO 7176-19, the frame is compatible with the four-point tie-downs and three-point seatbelts on a vehicle, absorbing energy upon impact while maintaining structural integrity to minimize injury risk.

Users can remain seated in the wheelchair when entering the vehicle. This minimizes the burden of transferring in and out of the vehicle during medical visits or travel, improving participation in daily and social activities.

Hook labels are clearly marked on the certified models, indicating correct tie-down positions, ensuring absolute stability during transit.



Clinical Justification for
Ergo Lite 2 Tall

The clinical recommendations provided in this document are for professional therapists' reference only and should not replace individualized clinical assessment. The actual prescription should be determined by healthcare professionals based on the user's physical functions, home environment, and individual needs. Karma Medical reserves the right to change product specifications.

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