

Body Weight Support System

Ergonomically friendly and state-of-the-art design from the medical experts



A patient is suspended using a harness for his therapy session

A Closed-Loop Force Controlled Body Weight Support System

- A rehabilitative system for patients with spinal cord injury, stroke and other neurological disorders
- Allows for more natural walking movement
- Feedback provides stable and appropriate body weight support
- Unique software integrated with treadmill and body weight support control
- Ergonomically friendly for patient and therapist

The Product: Designed collaboratively by researchers and clinicians, the Body Weight Support System was developed to optimize the relearning of the neuromuscular system of the patient while addressing the ergonomics of the therapist's position in delivery of the therapeutic intervention.

This state-of-the-art pneumatic design and closed-loop force control system provides the needed body weight support and also allows the natural center of mass movement up and down during stepping. This allows appropriate and stable body weight support while producing the patient's natural gait

Integrated software in the treadmill and the body weight support control provides a closed-loop system that compiles comprehensive feedback to the therapist on the therapy session. The software reports average body weight support, average treadmill speed, and session length. The ergonomically friendly therapist seated station allows for patient interaction while preserving the therapist's physical well being.



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