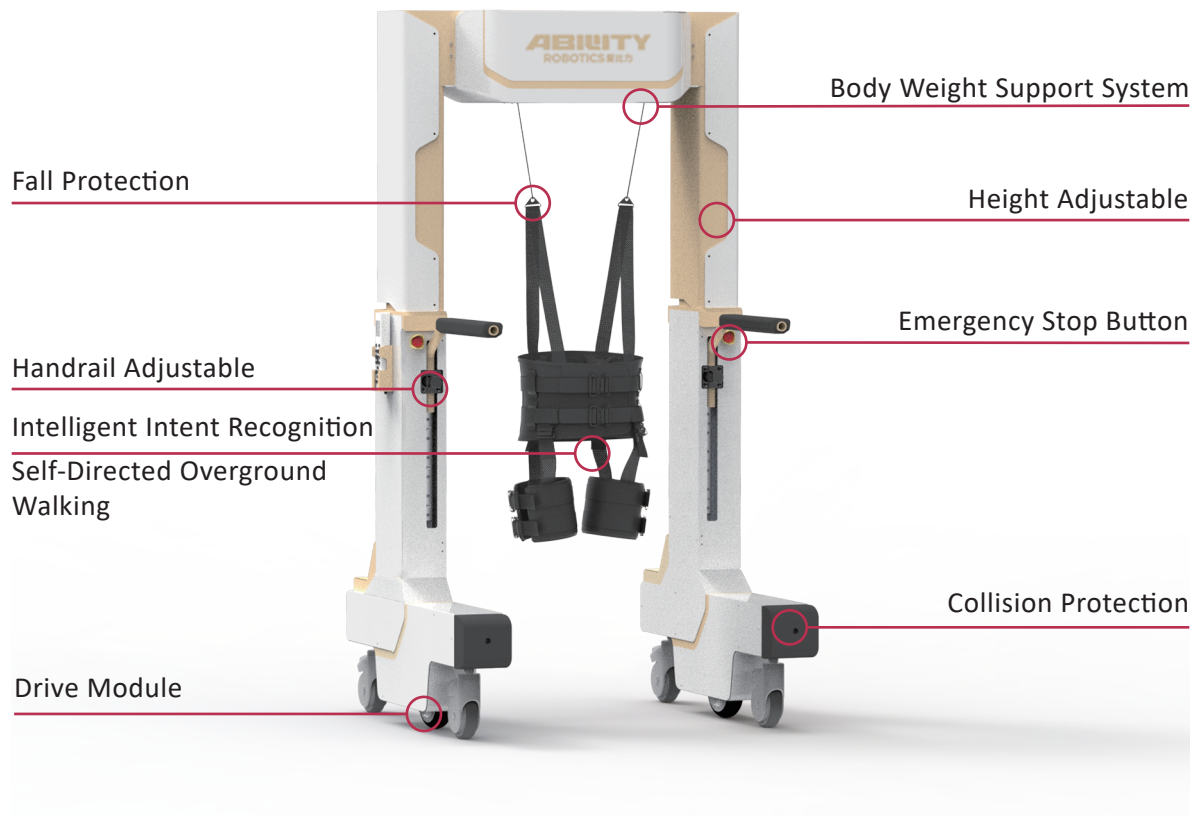


Data-driven Robotic Weight Assistant

Body-Weight Support **DRWA**



Data-driven Robotic Weight Assistant—DRWA



Data-driven Robotic Weight Assistant (DRWA) utilizes advanced AI perception technology and professional power drive modules to control the precise adjustment of the robot based on the user's action intentions and real-time posture analysis. It can dynamically reduce the user's own weight under different postures, enhance the perception of the lower limbs, increase joint mobility, and strengthen muscle strength, thereby improving walking endurance. Through the built-in intelligent training system, users can conduct training according to different scenarios and requirements, and the robot provides real-time weight reduction, follow-up, and fall protection.

Compared to traditional Overhead Rail-mounted Gait Training and Rehabilitation System (OGTRS) that require fixed installation and operating spaces, DRWA can be used in more scenarios, expand the training space, reduce deployment time, and offer more possibilities and future prospects.

Product Features

1 Weight Reduction



Dynamic weight reduction



Static weight reduction

2 Multiple Mode Selection



Free mode



Standing mode



Straight line mode



Follow mode



Line-following mode

3 Adjustable Parameters

Dynamic weight reduction parameters, speed, device height, etc.

4 Intelligent Fall Protection

Falls prevention protection, emergency stop, and other safety protections.

5 Intelligent Following

Responsive to walking intent, stopping as needed.

Scope Of Application



Neurological Rehabilitation

Conditions such as cerebral vascular diseases, brain trauma, spinal cord injuries, etc., can affect the nervous system's control over muscles, leading to weakened muscle strength, partial or complete loss of body movement and sensory functions, and severely impaired balance and coordination abilities.

Clinical Application

DRWA can assist patients with walking training, balance training, center of gravity transfer training, and comprehensive training, providing dynamic, precise, controllable, and safe support to promote the rehabilitation process and gradually improve the patient's motor ability and quality of life.

Orthopedic System Rehabilitation

Patients with conditions such as post-joint replacement surgery, fractures, amputations, sports injuries, etc., require rehabilitation training before or after surgery.



Clinical Application

DRWA can assist patients with gait training, joint mobility training, muscle strength training, etc., ensuring the safety and comfort of patients during training, helping them restore joint function, and bringing better rehabilitation effects and experiences.

Elderly Rehabilitation

Elderly patients with severe heart disease, lung disease, Parkinson's disease, etc., may become weak, mobility-impaired, and prone to falls.

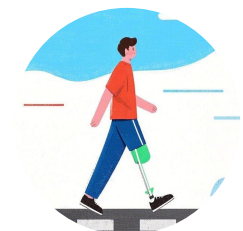


Clinical Application

DRWA can assist the elderly with walking training, daily living ability training, etc., providing safe and stable support to avoid exacerbating the condition due to falls and other accidents. It can also help them move between different living areas, reduce the physical consumption during the transfer process, and improve their self-care ability.

Other Rehabilitation

Patients with severe degenerative change of joint, as well as the elderly, weak, disabled, and long-term bedridden patients.



Clinical Application

DRWA can assist patients with early small-movement adaptive standing, balance, walking, and other training to improve their life and psychological state, increase their confidence and enthusiasm for rehabilitation, and also facilitate medical staff and family members for treatment and care.

Combined Training

In addition to self-directed overground gait training on flat ground, the DRWA can also be integrated with the following equipment:



Flat Ground Training

Integrate a variety of rehabilitation accessories to construct a colorful rehabilitation path.



Treadmill Training

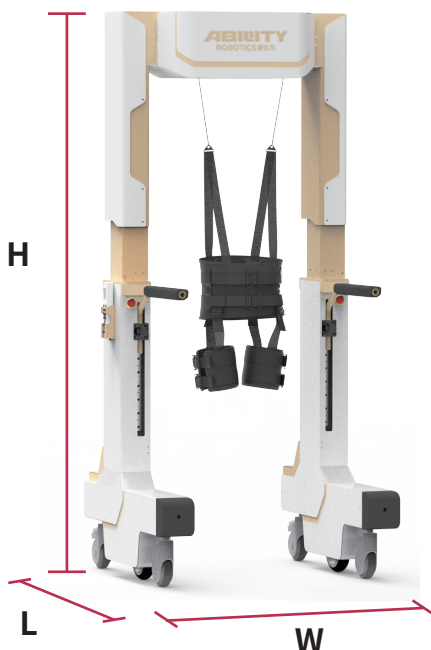
With a digital treadmill for gait training.



Line-following Training

With a fixed line for gait training or fixed-point training.

Equipment Parameters



DIMENSIONS

- **Outer dimensions (L×W×H):**
0.9m × 0.98m × 1.87—2.37m
- **Inner width:** 0.71m
- **Weight:** 150kg

Applicable populati

- **Patient weight max:** ≤130 kg
- **Patient height:** 135—200 cm

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