

The Future of Robotic Gait Rehabilitation



WALKBOT

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Robot assisted gait training system

WALKBOT is an advanced **Robotic Gait Training** system that provides the most natural and accurate gait rehabilitation training for patients with neurological disorders and gait impairments.

Why WALKBOT?

✓ Natural Gait Pattern Generator (NGPG)

Delivers the closest possible kinematic & kinetic gait pattern based on each patient's anthropometric data — enabling faster and more functional neuro-motor recovery.

✓ Hip-Knee-Ankle Synchronization

Triple joint actuation ensures coordinated movement across the entire gait cycle, resulting in the most natural walking patterns.

✓ Dynamic Body-Weight Support

Real-time unloading and inertia compensation allow safe and confident ambulation even for severely impaired patients.

✓ Automatic Leg Length Adjustment(WalkBot P)

Automated precision setup reduces preparation time and Prevents drop or toe drag.

Re-walking for perfection goes far beyond expectations

Dynamic body weight support

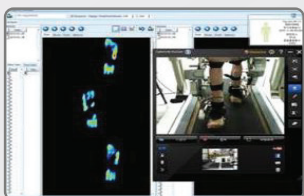
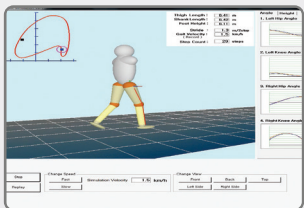
Real-time unloading enables optimization of the most physiological walking pattern.

Synchronization of Hip, Knee and Ankle

Helps patients relearn natural walking through synchronized three-joint robotic movement based on biomechanical gait algorithms. The **ankle joint drive** ensures a smooth and natural swing phase.

Force plate (optional)

It analyzes and corrects the patient's gait through measurement of center of pressure, gait balance with **time synchronous video recording**.



Augmented Reality 3D Software

Customized 3-dimensional augmented reality exercise games in interactive and ecologically natural or virtual environments.

Impedance control

Patient-cooperative technology detects voluntary effort and allows patients to actively participate in gait training, improving movement freedom, self-activation, and rehabilitation outcomes.

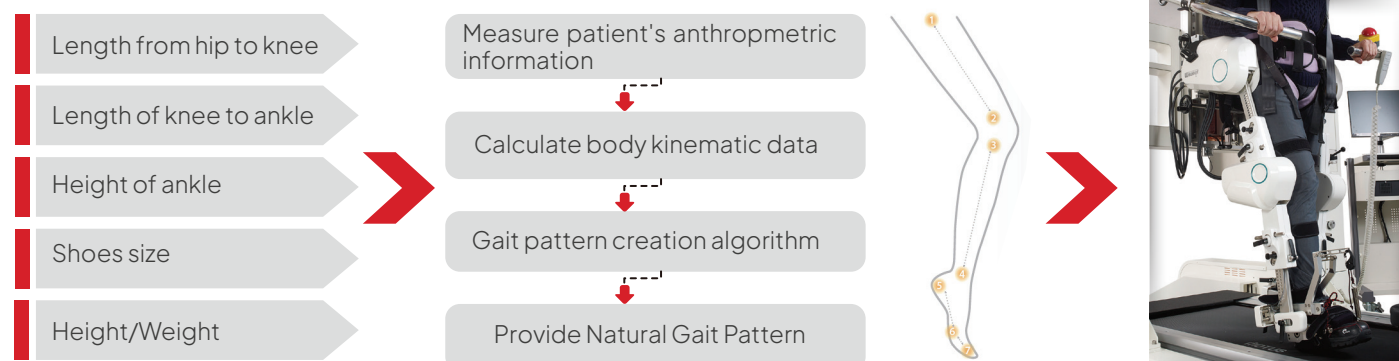
Motion analysis

Patient's actual kinetic and **kinematic data** can be reconstructed as 3-Dimensional image to analyze and rectify inaccuracies.



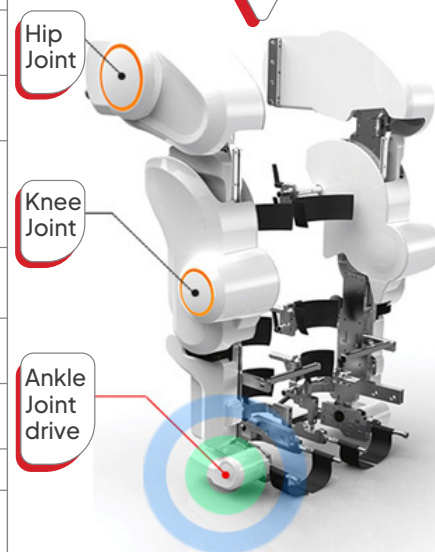
NGPG (Natural Gait Pattern Generator)

WALKBOT provides natural gait patterns that help patients with **acute** or **chronic-stroke**, **spinal cord injury** and other walking impairments relearn proper locomotion and speed up early recovery.



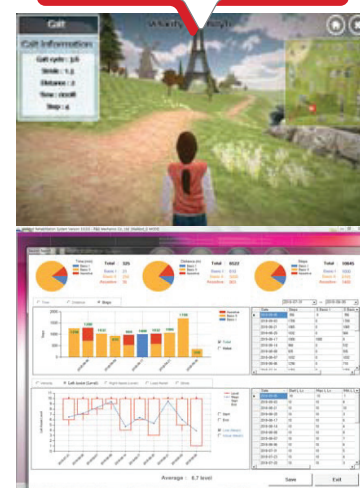
Features		Walkbot® P	Walkbot® G
Robot assisted gait training system			
Robot Orthosis	Robotic gait orthosis for adult	✓	✓
	Robotic gait orthosis for pediatric	✗	Compatible
	Synchronization of motorized Hip-Knee-ankle drive	✓	✓
	Automatic leg length adjustment	✓	Manual
Reverse-weight system	Dynamic body weight support	✓	✓
Option	Augmented reality feedback	✓	Optional
	Forceplate	Optional	Optional
	3D motion analysis system	✓	Optional

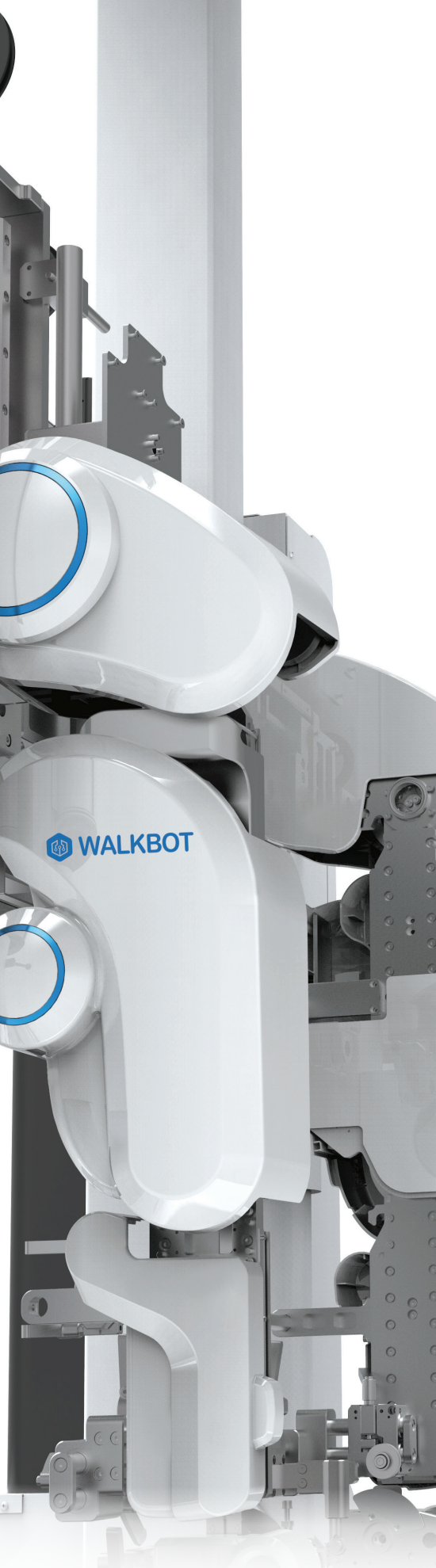
World's only
Robotic Gait Trainer with
Ankle Joint Drive
to train the patient with
natural Gait pattern



Technical specifications	Walkbot® P	Walkbot® G
Patient Height	140~200cm	132~200cm
Leg length (Hip-Knee)	350~480mm	30~480mm
Leg length (Knee-Ankle)	353~483mm	330~480mm
Dimensions (L x W x H)	380 x 200 x 257cm	
Space requirements (L x W x H)	530 x 300 x 265cm	
Power resources	AC 230V, 50/60Hz Single phase 10A	

Augmented Reality
3D Software





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