

ZEPU-AI1

GAIT TRAINING AND EVALUATION SYSTEM

Along the way, follow nature's path



GAIT TRAINING AND EVALUATION SYSTEM ZEPU-AI 1

Adopt 5 connection section technology , Making Demo parameters as Physiological gait way to lead the lower leg joint of patient to move. Combine weight support, walking and balance to simulate normal walking mode to support high-repeatability training . AI 1 Augmented feedback for real-time monitoring , management system for patients, Patient data & Therapy assessment solution , Making Patient to know of Rehabilitation Process Dynamic Rehabilitative Status . based on neural theory, to ensure the maximum neuroplasticity to explore , release & recovery potential capacity , enhance walking ability of patient by themselves.

WITH THE ADVANTAGE FROM CONGENERIC ITEM ALL OVER THE WORLD & REVOLUTION TECHNOLOGY SUPPORT

SHOW EXQUISITE & EXTRAORDI- NARY

Comfortable Light Strip design &
Leather technology by handcraft



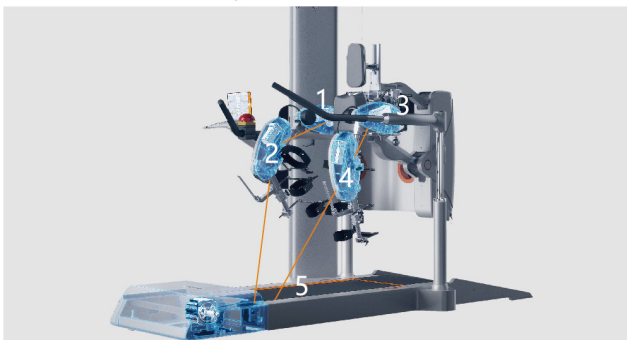
DYNAMIC REHABILITAT ION PROCESS

Passive mode : Movement by
Mechanical leg ;
Assistance Mode : Parameter set
as unique requirement
Active mode : High level updated ,
movement by patient themselves



5 SECTION CONNECTION GAIT DRIVE

Pelvic , Knee , feet
automatically match the body
movement
Walking Treadmill , Controlled
by themselves



PRIVILEGED REHABILITA- TION

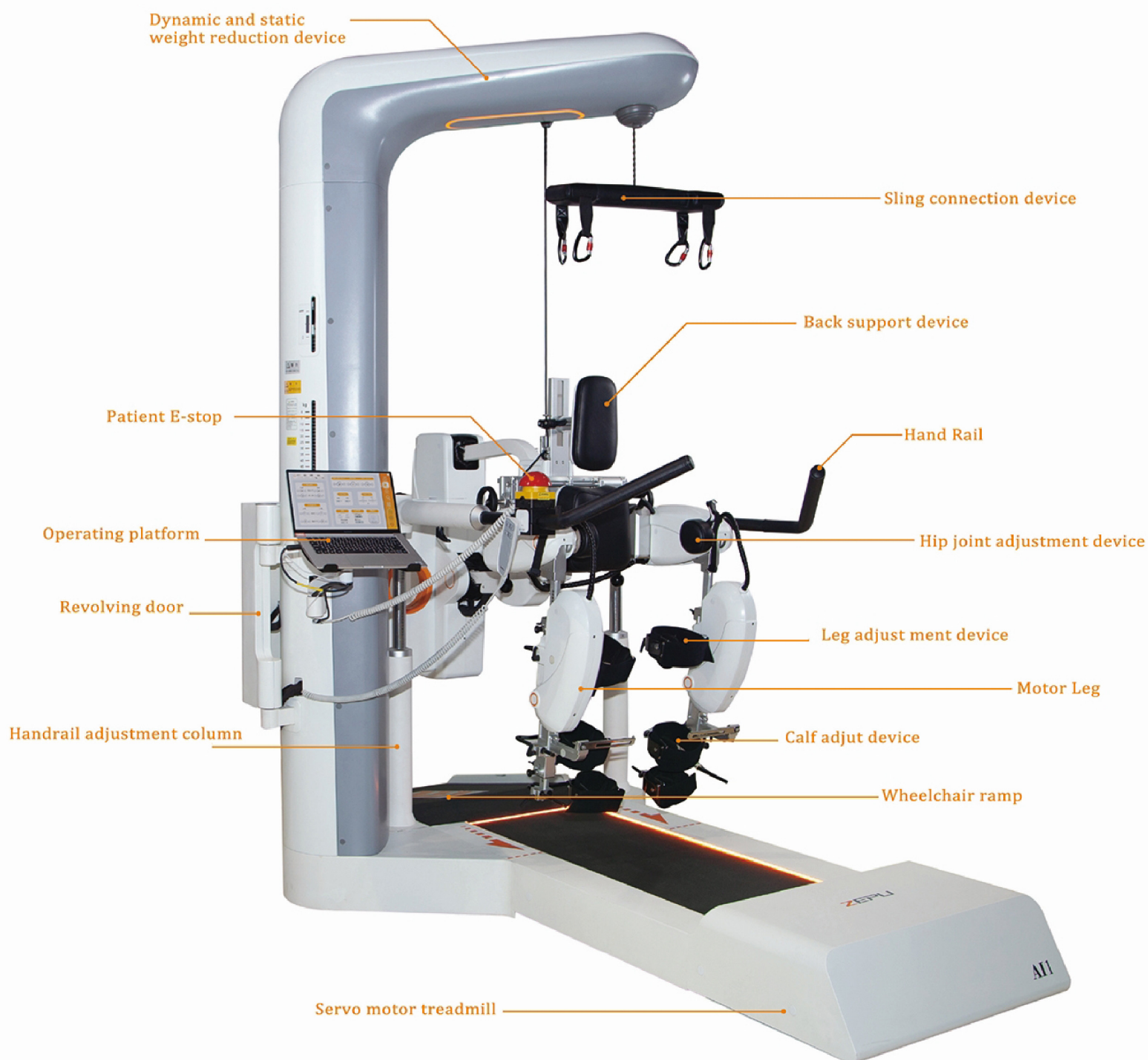
16 cm walking treadmill with
small ramp to ensure safety .
Perfect body specification can be
used in more environment



APPLICATION :

Stroke , cerebral palsy, cerebral trauma, Parkinson, spinal cord injury, Prosthesis replacement surgery end ,multiple sclerosis, Disused muscle, Degenerative joint disease of lower limb, Muscular atrophy of lower extremity, lower leg walking obstacle by nervous lesion , to improve limbs movement for elder people

ZEPU-AITM1



AL1 CAN PROVIDE TO PATIENT

An immersive training environment designed to attract and motivate patients to train

A safe environment promotes the progress of rehabilitation

1. The auxiliary force of the machine leg can be adjusted according to needs.

2. The sensor device always senses the patient's abnormal gait, spasm relief and abnormal stop.

The purpose of training is to improve

1. Gait
2. Balance
3. Weight-bearing capacity
4. Speed
5. Accuracy of movement

AL1 CAN PROVIDE TO THERAPIST

Free the hands of the therapist, save manpower and improve work efficiency.

Comprehensively examine each patient and formulate a personalized treatment plan.

DATA COLLECTION REPORT TREATMENT

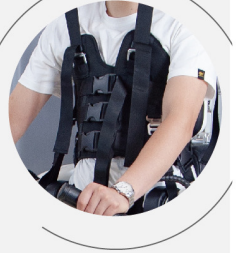
Detailed gait analysis and real-time motion feedback function to track the patient's gait training process.

Detect and track the quality of patient gait training.

Training data can be printed in reports and pictures.

DYNAMIC AND STATIC WEIGHT REDUCTION SYSTEM

Provide dynamic, constant weight reduction to assist flexible center of gravity floating weight reduction. Gives a small force to compensate the weight loss vest and is comfortable to wear. Provides tight protection to realize the change of the center of gravity during normal walking.



PERSONALIZED ADJUSTMENT SYSTEM



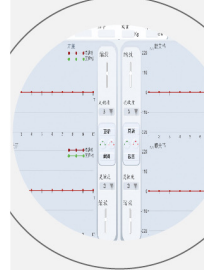
Adjust the width of the pelvis according to the characteristics of the patient, and easily change and adjust the size and position of the thigh and calf. Ensure that the patient's lower extremity joints and joints are accurately aligned and comfortable covering all movement directions involved in the lower extremity movement.

OBJECTIVE QUANTITATIVE EVALUATION SYSTEM

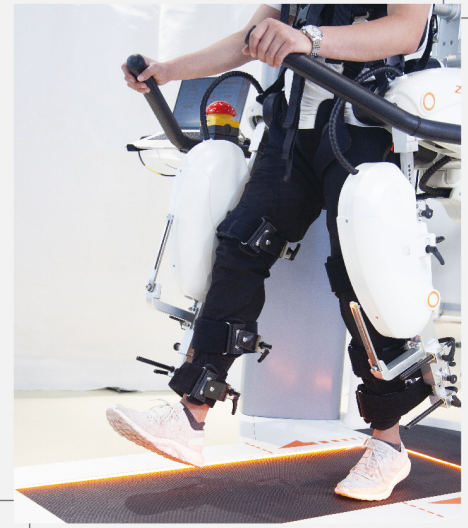
Hip and knee joint muscle isometric contraction torque during passive movement of hip and knee tension values, record the rotational torque Measure the patient's hip-knee passive range of motion Monitor changes in the angles of the left and right hips and knees during training Torque change



PERSONALIZED FEEDBACK TRAINING SYSTEM



Goal-oriented training to motivate patients to improve the quality of exercise, Continuously improve the quality of sports based on the reward mechanism Interesting in-depth customized training to stimulate patients' interest and participation



MULTIPLE SAFETY GUARANTEE SYSTEM

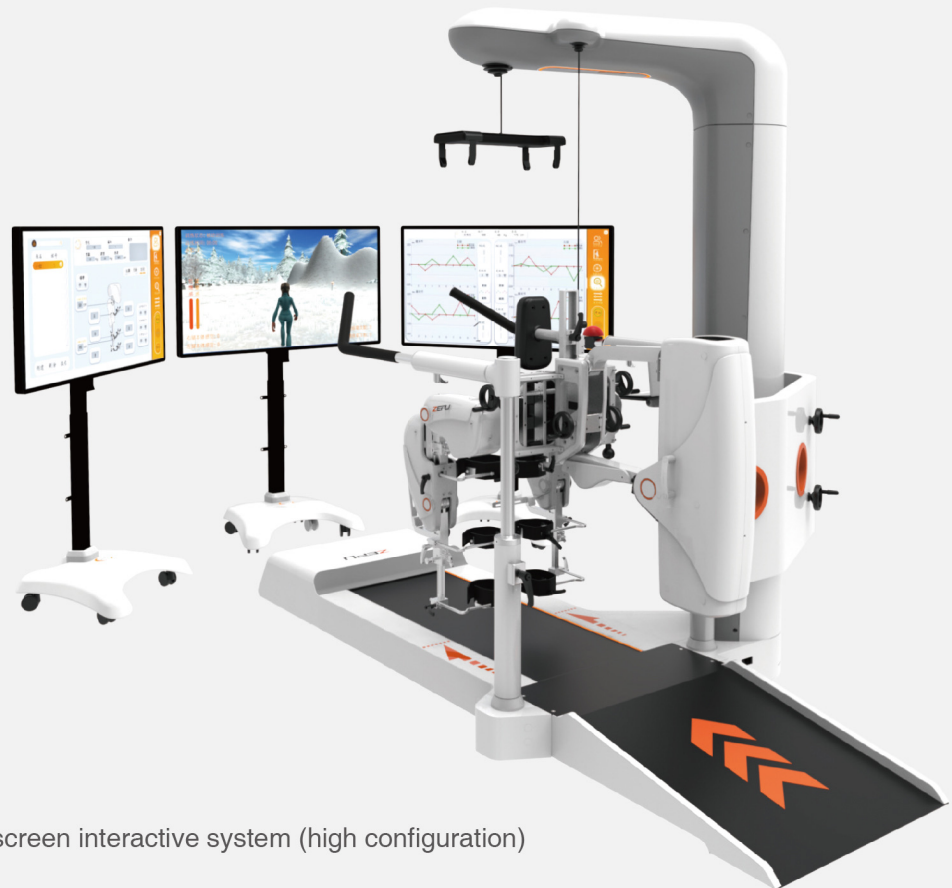
Five major braking systems, safety control system for treatment personnel Spasticity detection system, patient emergency stop button The treadmill is driven synchronously and automatically matches the movement of the human body.



FUNCTION

Active and passive training consistent with natural step to gait Orthosis

- Dynamic body weight support, simulates changes of body focus during real walking
- Spasticity monitoring & protection can effectively ensure the safety and reliability of patients' rehabilitation training.
- Situational interactive module makes patient training more interesting and stimulates active participation.
- With 3 models of chest & abdominal straps, 7 types of leg straps, Crotch straps can be selected according to gender, to meet the needs of patients of different heights, body shapes, and genders.
- Revolution design in assist as wheelchair patients needed.
- Easy to operate, system program settings can be quickly completed in a short time, saving time.
- Customized rehabilitation training with adjustable parameters.



Three-screen interactive system (high configuration)

ZEPU-AI1



PARAMETER

Machine Size	2960mm×1570mm×2650mm
Machine Weight	600kg
Gait drive Section	5 Section (Pelvic , Knee , Walking Treadmill)
Width of Pelvic Adjustment	≥ 16cm
Leg Adjustment Range	Upper Leg 35-47cm ; lower leg:0-11 cm
Walking Speed on Treadmill	0.1 km/h-3.5km/h, walking speed 0.1 km/h
Weight Reduction Range	0-80 kg
Maximum Height limited	200cm
Spasticity grade	strong, medium, weak, 3 levels
Walking Speed	0.1km/h-3.5km/h
Voltage	AC220V, 50Hz
Input powe	950VA