

AERO RUNNER TREADMILL

by GoldenAll

Experience NASA-Inspired Differential Air
Pressure Technology with Precision Pneumatic
Body Weight Off-Loading



Revolutionize Gait and Balance Rehabilitation



The GoldenAll Aero Runner Treadmill represents the evolution in gait rehabilitation, combining NASA-inspired Differential Air Pressure (DAP) technology with precision pneumatic body weight off-loading, advanced gait analysis capabilities and perturbation training features to enhance rehabilitation and accelerate recovery.

Key Innovation: Based on Differential Air Pressure technology originally developed by NASA, the Aero Runner creates a controlled environment where users can exercise with reduced gravitational impact, allowing for safe, pain-free, and effective rehabilitation.

Core Features



Adjustable Body Weight Support

20% to 100% in 1% increments

Millimeter-Level Accuracy

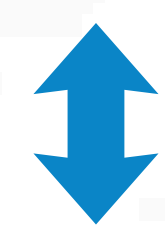
- Reduces body weight up to 85%
- Customizable support for each patient's needs
- Ideal for patients at all stages of recovery
- Environmentally friendly, odorless TPU airbag material



Real-Time Gait Analysis

Integrated Infrared Gait Sensors

- Dual infrared sensors capture gait in real-time
- Live monitoring of left vs. right stride symmetry
- Measures cadence, step length, and gait parameters
- Printed reports available for each training session (optional)
- Ensures every step is accurately measured and recorded



Perturbation Training Mode

Fall Prevention and Balance Enhancement

- Automatic speed variations to challenge stability
- Simulates real-world walking conditions
- Improves reactive balance and fall prevention
- Adjustable intensity and frequency



Ultra-Low Starting Speed

ServoStep Technology

- Starts as low as 0.1 km/h
- Ensures safe first steps for elderly and early post-operative patients
- Smooth acceleration without sudden movements
- Builds confidence in patients with mobility challenges



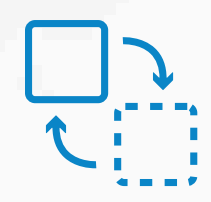
Comprehensive Speed Range

Forward and Backward Training

- Forward speed: up to 8-15 km/h (model dependent)
- Reverse speed: up to -5 km/h for backward gait training
- Electronic incline control: 0% to 16%
- Adjustable in precise increments



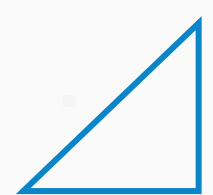
System Advantages



Space-Friendly Compact Design

Ultra-Lightweight and Portable

- Most compact anti-gravity treadmill available
- Easy to move between treatment areas
- Ideal for clinics with limited space
- Mobile caster wheels for repositioning



Ultra-Low Entry Height

Accessible for All Patients

- Entry height: 17.5cm
- Wheelchair accessible
- Reduces fall risk during entry/exit
- One-touch height adjustment compatible with barrier-free wheelchairs



Integrated UPS System

Data Protection and Continuous Care

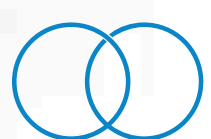
- Safeguards against data disruption
- Preserves every session's progress
- Ensures continuous care for patients
- No loss of training data during power fluctuations



Safety Protection Systems

4-Level Safety Features

- Force limitation protection (E10)
- Overload protection (E2)
- Emergency stop function (E8)
- Electronic fence safety system



Dual Handrail Design

Enhanced Stability and Control

- Ergonomic handrail positioning
- Rotary knob for rapid adjustment
- One-touch interface for training mode switching
- Safety stop button within easy reach





Available Models



GA-100 - Entry Level **Essential rehabilitation capabilities**

- Weight support: 0-80% range with 1% adjustment steps
- Speed: -5km/h to 15km/h
- Starting speed: 0.1km/h
- Incline: 0% to 8%
- Infrared Gait Sensor: Standard
- Servo Step: Standard
- User Weight: 36kg-180 kg



GA-200 - Standard **Comprehensive features for most clinical needs**

- Weight support: 0-80% range with 1% adjustment steps
- Speed: -10km/h to 25km/h
- Starting speed: 0.1km/h
- Incline: 0% to 16%
- Infrared Gait Sensor: Standard
- Servo Step: Standard
- Report Printing: Optional
- User Weight: 36kg-180 kgp



GA-300 - Premium **Advanced capabilities with full feature set**

- Weight support: 0-80% range with 1% adjustment steps
- Speed: -10km/h to 30km/h
- Starting speed: 0.3km/h
- Incline: 0% to 16%
- Infrared Gait Sensor: Standard
- Servo Step: Standard
- Perturbation Module: Optional
- Report Printing: Optional
- Immersive Situational Interaction Device: Optional
- User Weight: 36kg-180 kg



Common Features (All Models)

- Live Video Monitoring: 3-way simultaneous (Left, Right, Front)
- Material of Airbag: Environmentally and odorless
- Warranty: Up to 5 years (Optional)
- Entry Height: 17.5cm

CLINICAL APPLICATIONS



Neurological Rehabilitation

- Stroke recovery and gait retraining
- Spinal cord injury rehabilitation
- Cerebral palsy
- Multiple sclerosis
- Parkinson's disease management
- Traumatic brain injury



Cardiac & Internal Medicine

- Diabetes management
- Obesity treatment
- Respiratory disease rehabilitation
- Low-impact cardiovascular training



Orthopedic System

- Post-surgical rehabilitation (knee/hip replacement)
- Fracture recovery
- Achilles tendon repair
- Back pain management
- Osteoarthritis exercise
- Joint replacement recovery
- Ligament injury rehabilitation
- Meniscus tear recovery



Geriatric Department

- Balance and mobility assessment
- Fall prevention training
- Gait stability improvement
- Safe cardiovascular exercise



Sports Medicine

- Athletic injury recovery
- Performance training
- Pre-competition preparation
- Post-injury return to sport



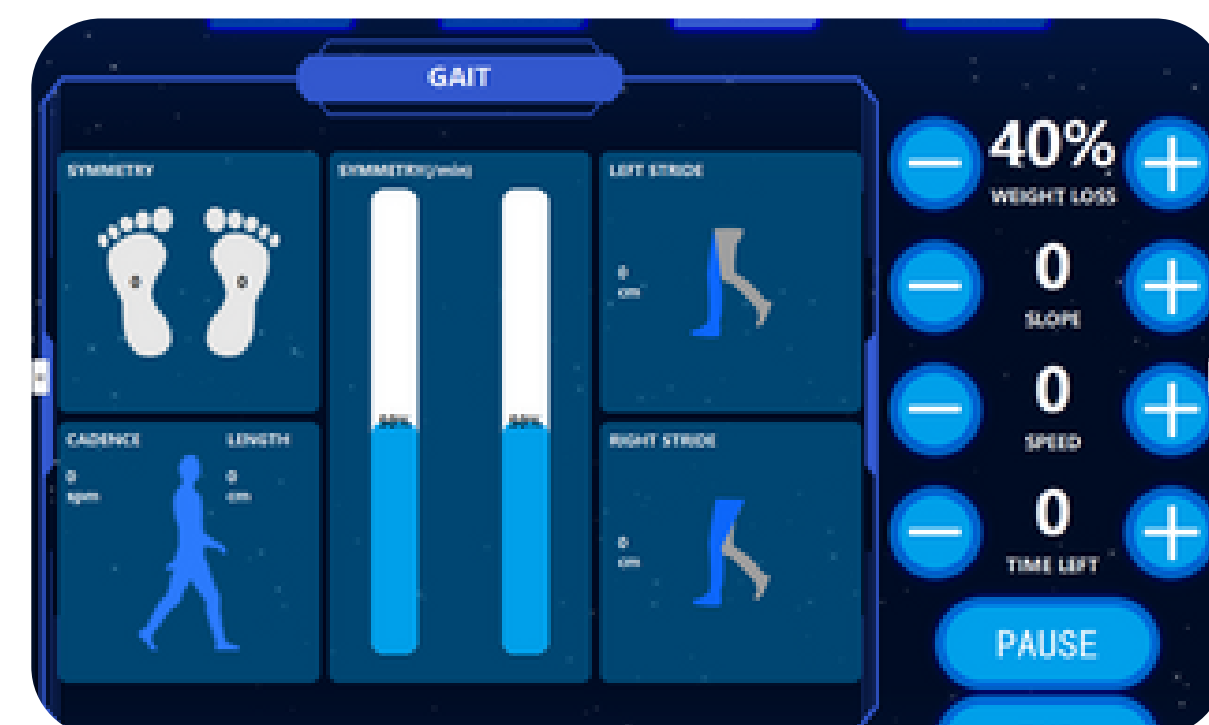
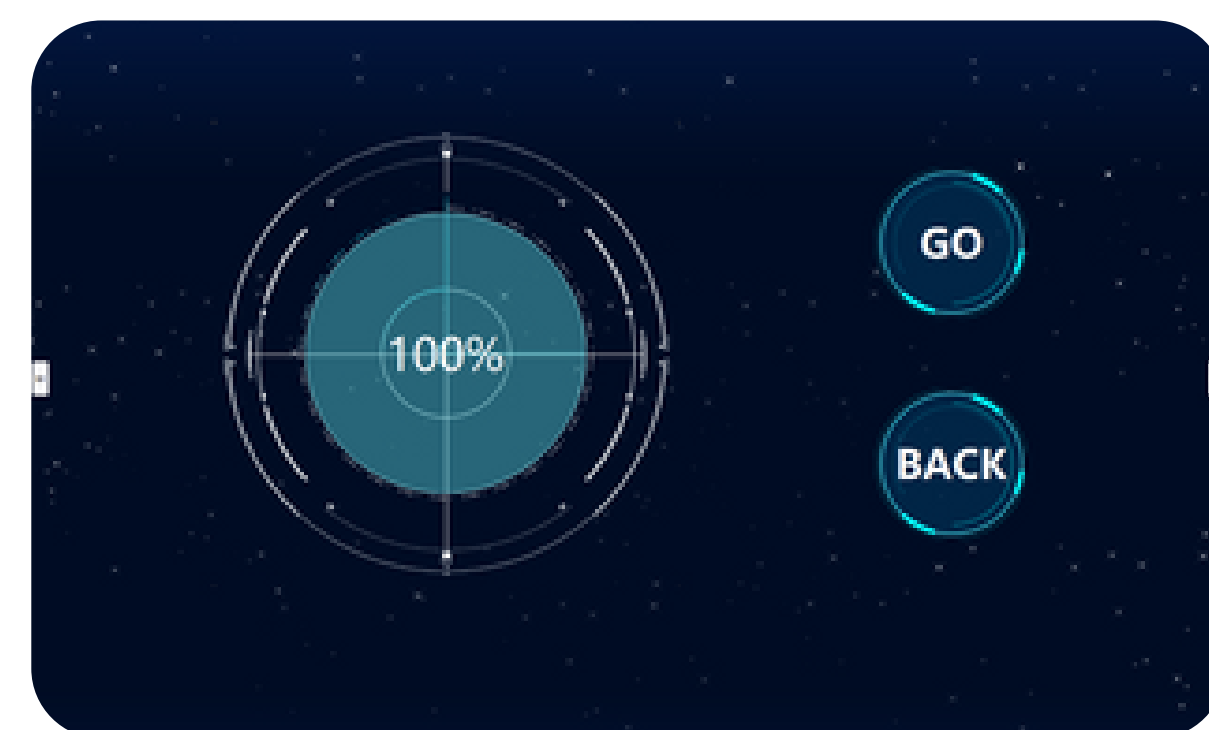
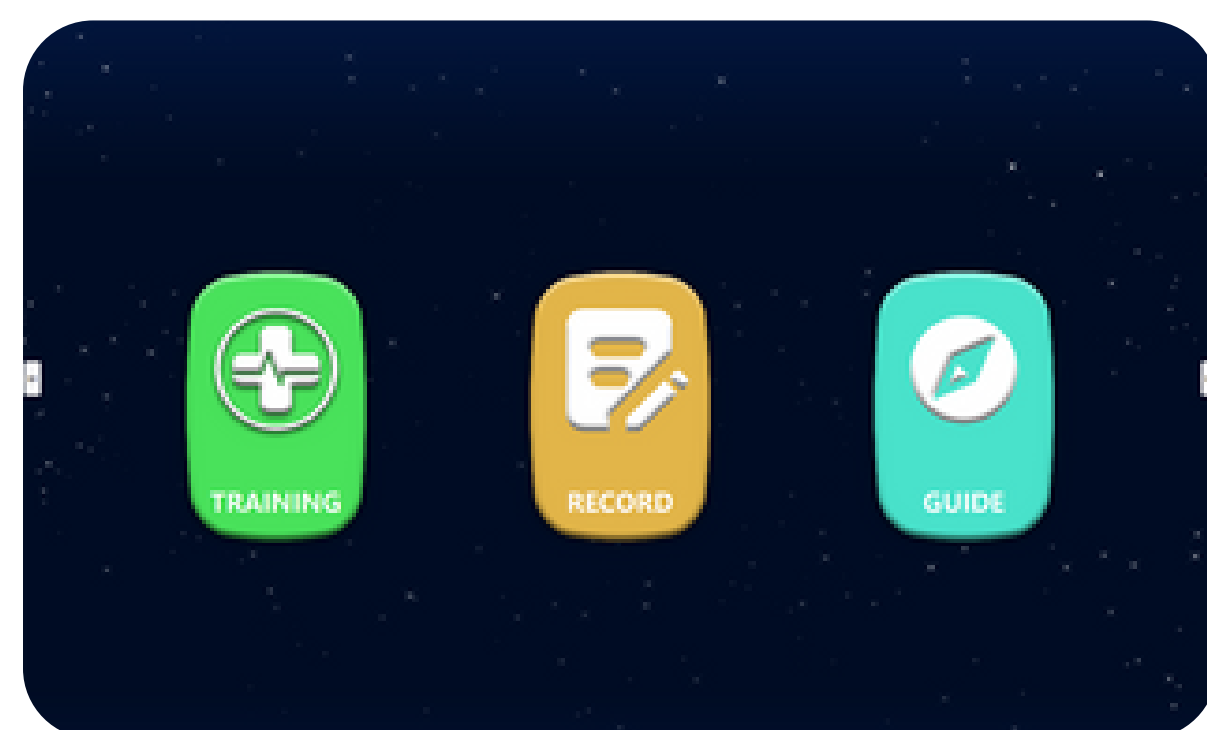
Other Applications

- Muscular dystrophy
- Gait training after burn healing
- Physical activity for breast cancer survivors
- Backward walking function training (NLBP)
- Balance training for vestibular disorders





Customizable Training



Personalized Rehabilitation Plans

- Create patient-specific movement patterns
- Adjust intensity based on progress
- Combine multiple training modalities
- Support multi-project training planning
- Real-time parameter adjustment

Quantifying the Training Process

Intelligent Data Analysis

Multi-Dimensional Feedback

- Speed monitoring during training
- Strength assessment in real-time
- Range of motion tracking
- Cadence and step length analysis
- Left/right symmetry percentage
- Gait pattern evaluation

Comprehensive Evaluation

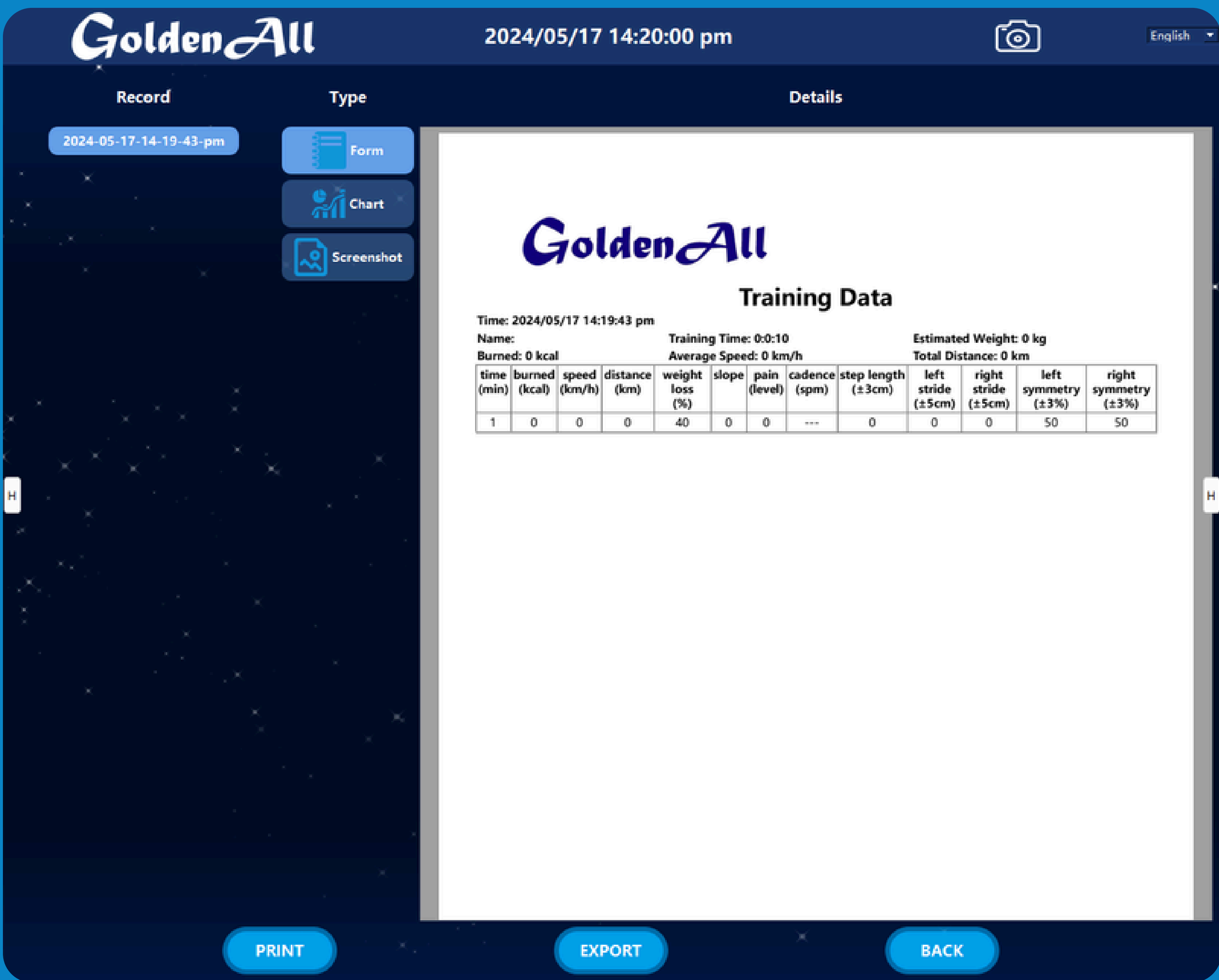
Evidence-Based Progress Tracking

- Combine evaluation with training data
- Support multi-project training planning
- Quantitatively manage rehabilitation process
- Generate detailed progress reports
- Print or export training summaries

Clinical Decision Support

Closed-Loop Management

- Real-time feedback enables immediate adjustments
- Therapist can modify training plan during session
- Achieve closed management of rehabilitation process
- Data-driven treatment optimization



UNLOCK NEW POSSIBILITIES

Perturbation Training Board

Enhanced Balance and Fall Prevention

- Perturbation training board
- Control terminal
- Specialized software
- Creates unexpected disturbances to improve reactive balance

Situational Interaction Device

Immersive Training Environment

- High-performance servers
- Interactive display
- Situational interaction software
- Engaging visual feedback for motivation

Immersive Situational Interaction Device (High End)

Complete Virtual Reality Integration

- High-performance servers
- Multiple monitors
- Laser projectors
- Surround screens
- Situational interaction devices
- Optional perturbation training board integration
- Creates fully immersive rehabilitation experience



Advantages Over Traditional Methods

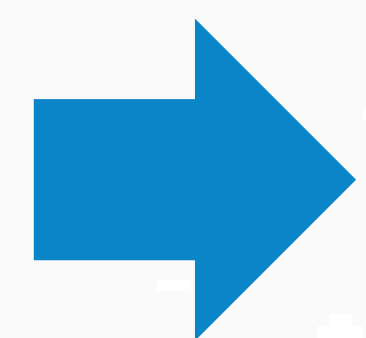
Integrated Approach

The Aero Runner combines body weight support, precision treadmill, gait analysis, and perturbation capabilities in one system.

Comparison with Other Rehabilitation Methods:

	Aero Runner	BWS Track	Exoskeleton	Aquatic Therapy
Integrated BWS + Treadmill + Analysis + Perturbations	✓	Partial	No	No
Active training	✓	✓	Limited	✓
Minimal space needed	✓	✓	✓	No
Speed range	0-15 km/h	NO treadmill	~10 km/h	~0.5 km/h
Backward steps	✓ (-5 km/h)	Limited	No	No
Natural gait patterns	✓	✓	No	✓
Easy to maintain	✓	✓	No	Limited
Core stability training	✓	✓	No	✓
Low risk of cross infection	✓	✓	✓	No
Suitable for athletes, geriatric, neuro	✓	Limited	Limited	Limited

CLINICAL ENVIRONMENTS



Skilled Nursing Facilities (SNF) and Assisted Living (ALF)

Use with elderly and frail persons for safe ambulation training



Sports Medicine Clinics

Athletic training and injury recovery



Hospital Rehabilitation Departments

Integrated care for multiple patient populations



Inpatient Rehabilitation Facilities

Early intervention for neurological and orthopedic patients



Outpatient Rehabilitation Centers

Intensive therapy for stroke, brain injury, and surgical recovery



SPECIFIC USE CASES



**Photo shows VR integration capability*

The GoldenAll Aero Runner System is designed for patients who may be deconditioned, have leg weakness, and have a high falls risk:



Prosthetic Mobility Training

Gradual weight bearing for amputees



Neurological Patient Mobility Training

Safe environment for relearning gait



Balance and Perturbation Training

Fall prevention and reactive balance



ADL and Proprioception Training

Functional movement retraining



Post-Surgical Weight Off-Loading

Knee/hip replacement rehabilitation



Vestibular Training

Balance disorders and dizziness management



Osteoarthritis Exercise

Pain-free cardiovascular training



Geriatric Deconditioning

Safe exercise for elderly with mobility limitations



REGULATORY APPROVALS

- ✓ **CE-MDR Certified** - European medical device approval
- ✓ **FDA Registered** - United States authorization
- ✓ **ISO Certified** - International quality standards

MANUFACTURING EXCELLENCE

- ✓ **Founded 2017**
Established expertise in anti-gravity technology
- ✓ **Complete In-House Development**
Continuous product innovation
- ✓ **1,000+ Units Delivered**
Proven global track record
- ✓ **Focus on Long-term User Interests**
Continuous software and hardware updates

SERVICE EXCELLENCE

- ✓ **Simplified Setup**
Whole units shipped for easier installation
- ✓ **Industry-Leading Warranty**
Up to 5 years optional coverage
- ✓ **Personalized Touch**
Customized language and clinic logo options

QUALITY AND CERTIFICATIONS

CLINICAL EVIDENCE



Proven Technology

Differential Air Pressure (DAP) treadmills have been extensively studied and validated in scientific literature:

Published Research Findings:

- Reduces cadence, ground reaction force (GRF), and joint stress
- Decreases knee and ankle range of motion strain
- Enables aerobic fitness maintenance during recovery
- Preserves muscle activation patterns
- Maintains muscle mass compared to traditional rehabilitation protocols

Clinical Applications Documented:

- Post-operative repair of osteochondral defects
- Stress response management (medial tibia, pelvis)
- Lumbar disc herniation rehabilitation
- Joint and tendon restoration without injury risk
- Gradual progression to strong exercise effects
- Maximized recovery of walking function

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

- **Weight Support Range:** 20% - 100% of body weight
- **Adjustment Precision:** 1% increments
- **Maximum Weight Reduction:** Up to 85%
- **User Weight Capacity:** 36kg - 180kg
- **Entry Height:** 17.5cm

SPEED AND INCLINE

- **GA-100:** -5km/h to 15km/h
- **GA-200:** -10km/h to 25km/h
- **GA-300:** -10km/h to 30km/h
- **Starting Speed:** 0.1km/h (GA-100/GA-200), 0.3km/h (GA-300)
- **Starting Speed:** 0.1 km/h or 0.3 km/h (model dependent)
- **Incline Range:** 0% to 16%

TECHNOLOGY FEATURES

- ✓ **Gait Analysis:** Standard infrared sensors
- ✓ **ServoStep:** Standard on select models
- ✓ **Perturbation Mode:** Available
- ✓ **Report Printing:** Optional
- ✓ **Video Monitoring:** 3-way simultaneous (optional)
- ✓ **UPS System:** Integrated data protection

SAFETY FEATURES

- Force limitation protection
- Overload protection
- Emergency stop function
- Electronic fence system

POWER AND STANDARDS

- ✓ **Power Voltage:** Available for 110V/16A and 220V/10A
- ✓ **Materials:** Environmentally friendly and odorless airbag (TPU)





MEDIA RECOGNITION

TELEVISION COVERAGE

China Central Television (CCTV-10): "The Aero Runner treadmill can achieve a zero-resistance exercise effect and can adapt to the needs of different patients or athletes at various stages of exercise, providing them with a comfortable and safe training environment."

Jiangsu TV Public News Channel: "The Aero Runner treadmill can reduce body weight by up to 80%. In addition to fitness, it can also help patients with lower limb system inconvenience, the elderly and obese people reduce their weight burden and exercise scientifically."

Science and Medicine Journal: "The Aero Runner treadmill can restore joints and tendons without the risk of joint injury, gradually achieve strong exercise effects, and maximize the recovery of patients' walking function."

COMPREHENSIVE SUPPORT BY **NEURO REHAB RECOVERY**

As the **authorized distributor** of GoldenAll in the United States,
Neuro Rehab Recovery provides:

✓ **Clinical Training**

Training by certified neuro/ortho trained therapists to ensure optimal clinical outcomes

✓ **Ongoing Clinical Support**

Continuous access to neuro-trained physical therapists for consultation and treatment optimization

✓ **Technical Support**

USA-based repair and technical support resources for prompt service

✓ **Flexible Business Models**

- Purchase options available
- Rental programs
- Leasing arrangements
- Most Affordable Pneumatic Treadmill on the Market



Transform Your Rehabilitation Program

The GoldenAll Aero Runner Treadmill offers advanced capabilities for comprehensive gait and balance rehabilitation, enabling more patients to benefit from cutting-edge rehabilitation technology.

Contact us for more information, virtual demonstrations and ask about our flexible financing program.



Contact information



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