

Fourier Intelligence Global Partnership Network



RehabHub™



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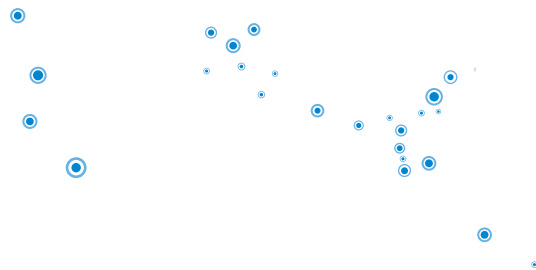
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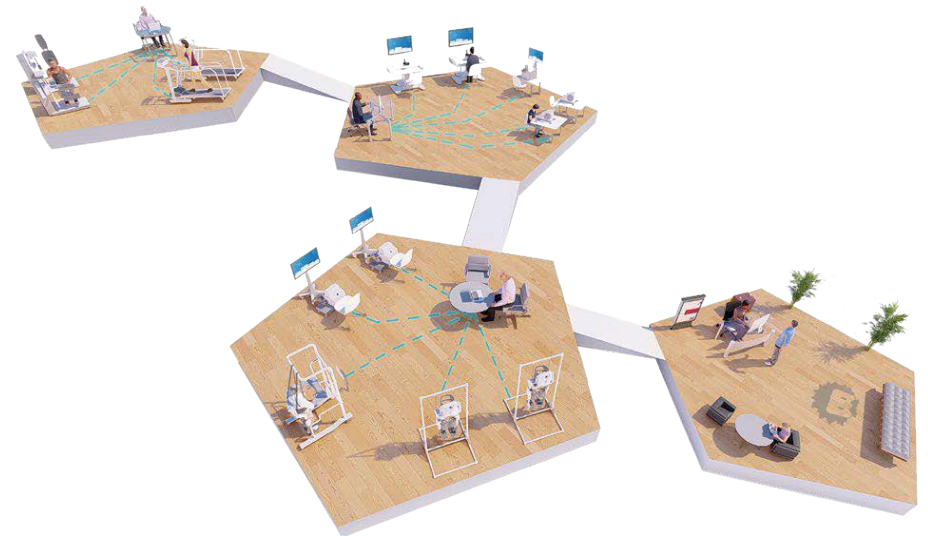
Fourier Intelligence Group /

1. Fourier Intelligence started its first corporate office in Shanghai and followed by its global HQ in Singapore, subsidiaries in Malaysia, Australia, Beijing, Guangzhou, China.
2. To be the world's leading enabler of intelligent technologies for human wellbeing to make rehabilitation technology mainstream.
3. To transcend innovative robotics and clinically empowering human ability.
4. The pioneering member to represent rehabilitation robotics in the International Federation of Robotics (IFR).
5. More than 1000 installations in more than 30 countries in the world.
6. Secured the financing from top-tier investors in Series D Funding, led by SoftBank Vision Fund 2 and backed by the Saudi Aramco P7 Venture Fund and the Yuanjing Capital.
7. 17 international research joint labs worldwide.
8. Some of such initiatives are joint research laboratories, respectively, with the Shirley Ryan AbilityLab (formerly known as the Rehabilitation Institute of Chicago) in the United States, the University of Melbourne in Australia, ETH Zürich in Switzerland, National University of Singapore, Kobe University in Japan, and the KITE Research Institute at the Toronto Rehabilitation Institute in Canada.
9. Academic exchange and research collaboration with more than 100 top hospitals and rehabilitation centres worldwide to share resources and cultivate talents for rehabilitation medicine and engineering fields.



Fourier Intelligence RehabHub™ /

Fourier Intelligence RehabHub™ is a one-stop solution concept consisting of comprehensive advanced rehabilitation technology including robotics therapy, neuromodulation, sensor technology, virtual reality, and functional electrical stimulation. The principle of RehabHub™ technology is to provide high-efficiency rehabilitation training, cost-effective therapy outcome, emphasise space-saving and ease of use. A fully digitised training environment reduces the labour-intensive work of physical therapists so that they can focus on diagnoses, therapy planning, and dexterous manual therapy. Fourier Intelligence RehabHub™ also allows an institution to standardise services, improve technologies, modernise business and eventually drive the whole industry by setting a new benchmark.



Fourier Intelligence Rehabilitation Equipment

Fourier Intelligence RehabHub™ comprises of different rehabilitation equipment designated for upper limb, lower limb, movement and balance training. These equipment complement each other and offers a complete solution to a rehabilitation centre so that it can improve efficiency by reducing the labour extensive manual therapy. One therapist can now monitor multiple patients at the same time as all the devices are linked, replacing the traditional one-to-one training.

Cover the Whole Continuum of Rehabilitation

Provide assistance according to different training requirements, user's muscle power and conditions.

Abundant Therapies

Professional and personalised therapy including motor control, muscle strength and cognitive training.

Digitised Training

Analyse every movement precisely and generate a report after training.

Quick Setup

User-friendly design requires only 1 minute to set up and efficient enough to train 15 patients daily.



World Leading Force Feedback Technology Fulfil the Requirement of Different Rehabilitation Stages

Force feedback is one of the core technologies implemented in RehabHub™. The in-house developed force feedback algorithm and motor is able to mimic a therapist hand in the manual therapy. When a user is too weak to complete the movement during the early stage, the equipment will provide "assist-as-needed" hence guiding the user to achieve correct motion at the same time ensuring their participation. When the user gradually regains the strength, the equipment will lower its assistance or provide resistance instead. Force feedback technology allows the equipment to diversify training outcomes while the system can precisely analyse every movement, thus fulfilling the requirement of the middle and late rehabilitation stages.



Passive Mode
(0 MMT Score)
Improve ROM



Assistive Mode
(1-2 MMT Score)
Induce active participation



Active Mode
(3 MMT Score)
Optimise motor control

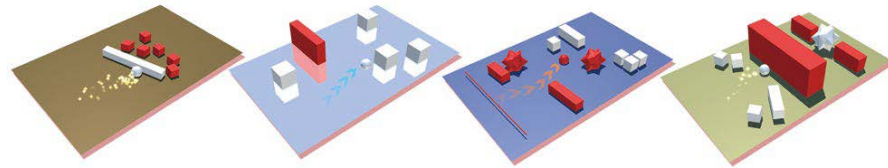


Resistive Mode
(4-5 MMT Score)
Improve muscle strength



Immersive Interactive Experience

The in-house developed main motion control unit (MMU) is integrated into the Fourier devices, allowing them to mimic different resistance, inertia, elasticity and obstacles. The realistic training scenario, combining visual, audio and kinesthetic inputs, escalates user experience to the next level.



Resistance (Muddy surface)

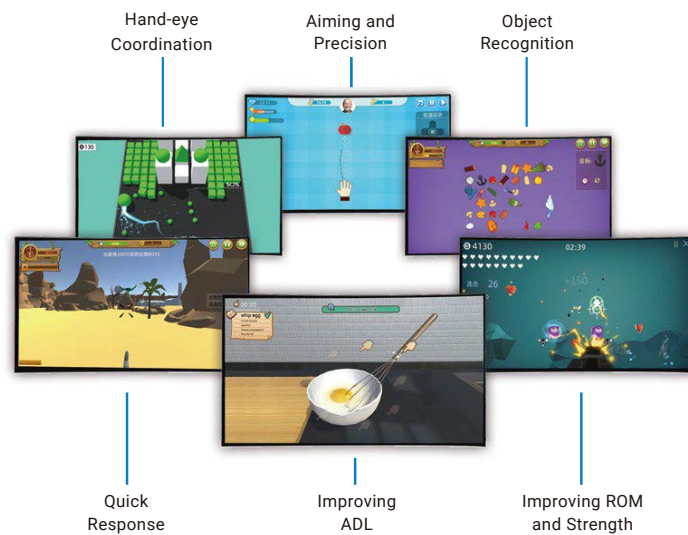
Inertia (Ice surface)

Elasticity

Obstacle



All the training modes come with different gaming scenarios that can motivate the active participation of the user. The stereotype of rehabilitation procedure being boring can now be overcome when the user can complete a professional rehabilitation through gaming.

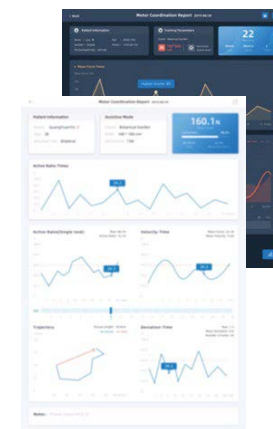


Measurable Training

Let the numbers do the talking.

Fourier Intelligence's equipment are integrated with force sensor and position sensor to measure every movement precisely. The device can measure a user's performance from multiple aspects, including the range of motion (ROM), strength, cognition, response time, etc. All of these analysis and training reports should be taken into account to ensure better training outcome.

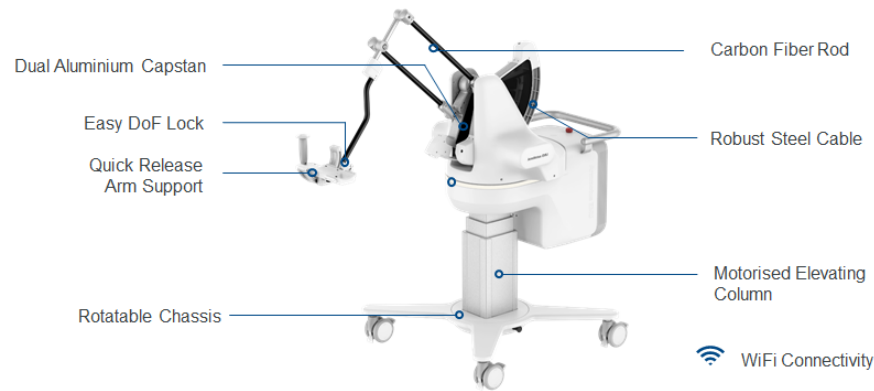
It will recommend training parameters based on user's assessment and passed training performance. The auto-generated training reports provide measurable results for the user's reference.



ArmMotus™ EMU

3D Upper Limb Rehabilitation Equipment

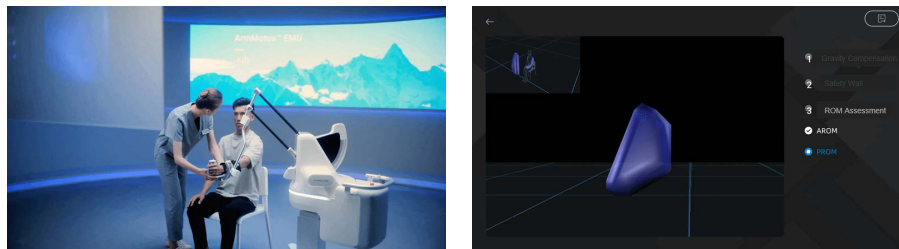
ArmMotus™ EMU is a 3D back-drivable upper limb rehabilitation equipment that adopted an innovative cable-driven mechanism, combined with a parallel structure made of lightweight carbon fiber rods which perfectly reduces the friction and inertia of the device. This enables the control system to respond and execute more efficiently, resulting in higher compliance in human-machine interaction.



3D Training ROM

Diversified Training Environment and Large ROM

Real-time rendering of user's ROM makes training easier to visualise and understand.



The force feedback technology can simulate different force environment that can be integrated into the training making them more interesting, immersive, and motivating. The real-time visual, audio, and haptic feedback can diversify the training and provides intuitive guidance to the users.



Motor Control



ADL Training



Reaction Training



ROM Training



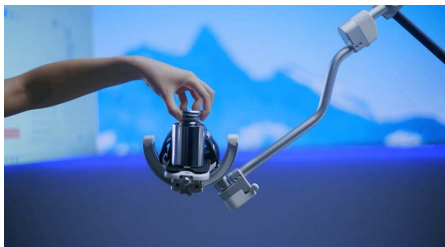
Strength Training



Bilateral Training

Compliant Motion Control Support All Training Modes

ArmMotus™ EMU supports easy training setup in sitting and standing position as well as accommodating different training arms. It integrates different scenarios in the game so that users can train on strength, motor control and joint ROM in one training, making the whole rehabilitation process more efficient.



Gravity Compensation



Large Controllable Force



Combining Actual Object



Bilateral Training



ArmMotus™ M2

Upper Limb Rehabilitation Equipment

ArmMotus™ M2 acquires all the Fourier Intelligence's core technology that ensures excellent user experience. ArmMotus™ M2 covers the whole continuum of rehabilitation by providing abundant training scenarios. It is simple to operate and cost-effective, therefore suitable for any hospital and rehabilitation centre.

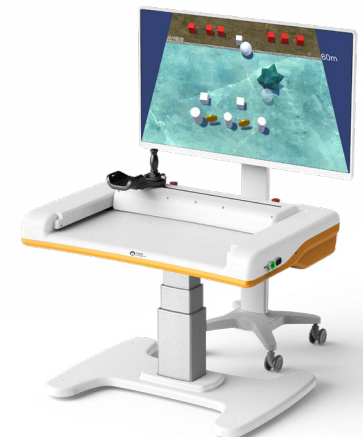


Device Comparison



ArmMotus™ M2 Pro

- Sleek and modern aesthetic design
- Durable weight
- Thinner working platform
- Efficient space occupancy
- Foreign object detection



ArmMotus™ M2 Gen

- Colourful and fun exterior design
- Light and easier to move
- Supports larger display screen

Multifunctionality

The multifunctional advantage of ArmMotus™ M2 allows it to achieve limitless possibility in training. For example, combining motor control with cognitive training; isometric strength with dynamic strength training; single joint training with activities of daily living (ADL) training; unilateral with bilateral arm training.



Motor control training

Improve motor control ability through targeted training.



Cognitive training

Improve user's cognition with perception, attention, memory training.



Isometric training

Induce power from early stage through isometric training.



Dynamic training

Improve user's cognition with perception, attention, memory training.



Single joint training

Improve the ROM of the user's scapula, shoulder joint and elbow joint through muscle tension control training.



Compound functional training

Improve the balance function with ADL training.



Unilateral training

Train with one arm by holding onto cylindrical or ball handle.

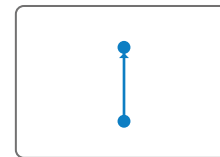
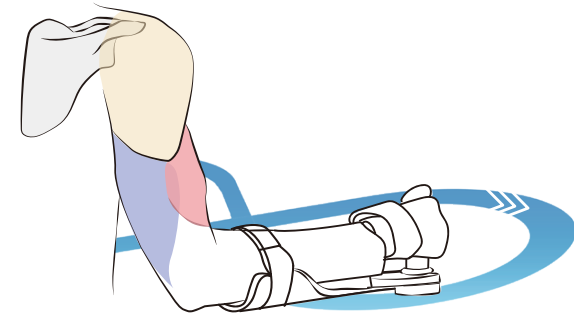


Bilateral training

Train with two arms by holding onto the handle.

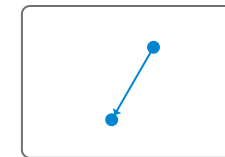
Personalised Therapy

ArmMotus™ M2 provides abundant therapies for upper limb functions. A therapist can tailor a targeted therapy according to the patient's training outcomes and needs by customising the training trajectory.



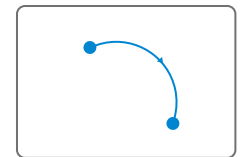
Protraction and Retraction of Scapula

Early prevention of abnormal movement patterns



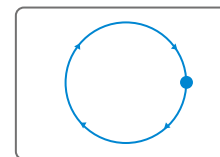
Flexion and Extension of Elbow Joint

Improve ADL movement



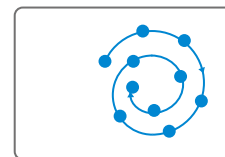
Internal and External Rotation of Shoulder Joint

Overcome synergistic movement



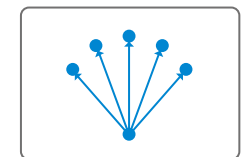
Range of Motion Training

Improve the ROM



Unilateral Neglect Training

Increase the sensory input from the neglected side



Balance Training

Improve balance during sitting and standing

At Your Service

Helping a therapist to complete 1 million repetitions per year.

20-30

Repetitions per minute

500

Repetitions per 20 minutes

5000

Repetitions per day

1million

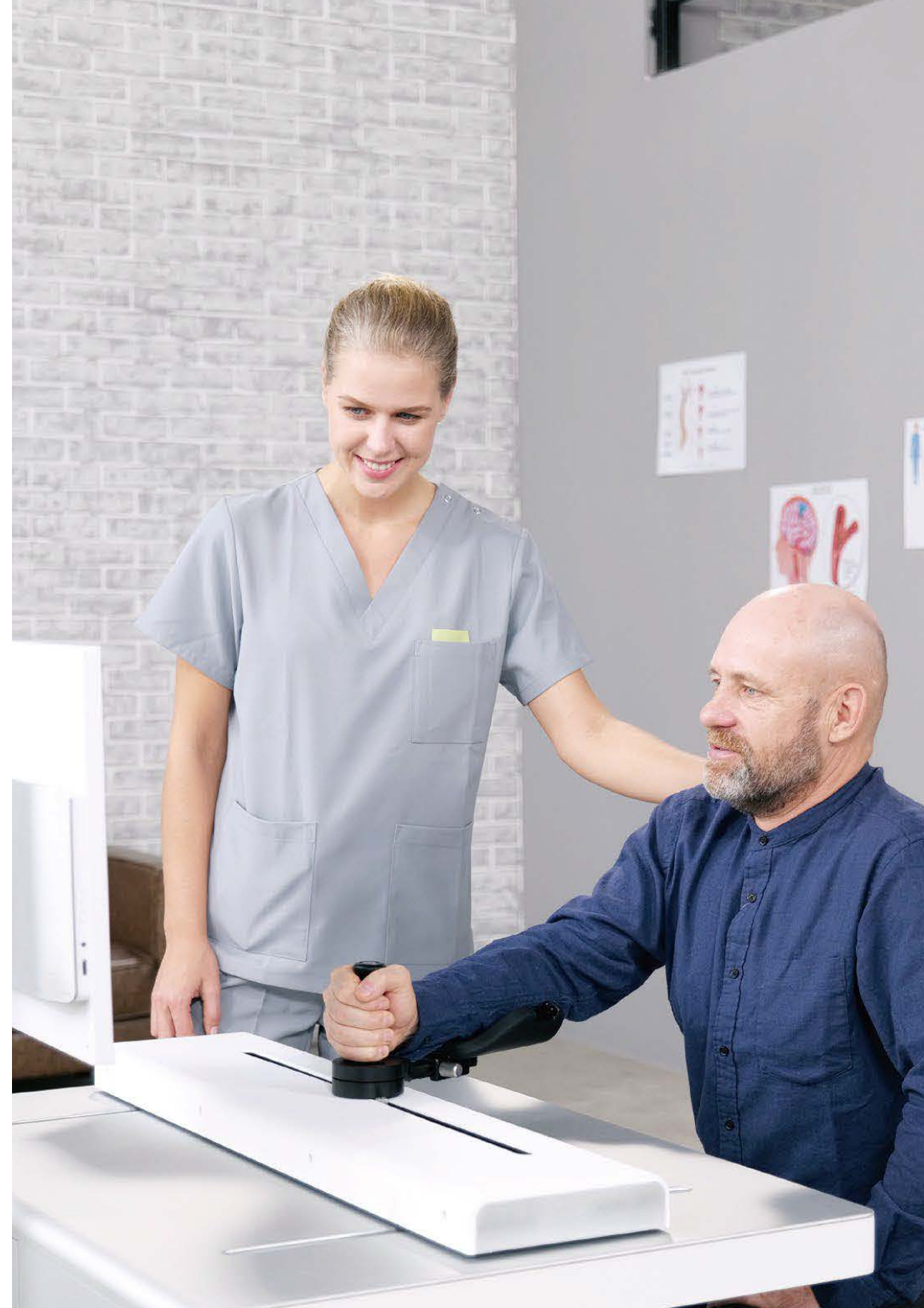
Repetitions per year

“The M2 by Fourier Intelligence is one of the robotics devices we use in the neuro-rehabilitation program at Barrow Neurological Institute. This device provides the therapists with an intuitive person machine interface to deliver therapeutic tasks in with minimal set up time which allows for more time to deliver an efficient patient treatment .”

—Trent Maruyama, Program Manager for Rehabilitation Technology,
Barrow Neurological Institute, USA

“It has been fantastic having the Fourier M2 robot at Hobbs, we have all enjoyed using this piece of technology with our patients as part of their inpatient and outpatient therapy programmes.”

—Joe Green, Technology Lead, Hobbs Rehabilitation, UK



WristMotus™

Wrist Joint Rehabilitation Equipment

WristMotus™ targets on wrist functions by providing training that mimic ADL. For example, forearm pronation and supination, ulnar and radial deviation, flexion and extension. It complements with ArmMotus™ and HandyRehab™, offering a complete solution for the upper limb.



Accessories for Different Functions

The variety of accessories can meet different requirements of the patients. A therapist can select a suitable accessory according to user's need and training outcome.



- ① Wrist flexion and extension
- ② Doorknob
- ③ Radial and ulnar deviation
- ④ Knob turning
- ⑤ Forearm pronation and supination



HandyRehab™

Hand Function Rehabilitation Equipment

Fine finger motor skill training has always been the pain point of rehabilitation. HandyRehab™ equips with 8 individual motors which allow it to carry out complex hand function training.

The integration of EMG sensors can provide different training scenarios such as passive, active-assistive, and mirror therapy.

HandyRehab™ only weighs 380g. It can support home use or even use as an assistive device to improve the quality of daily living.

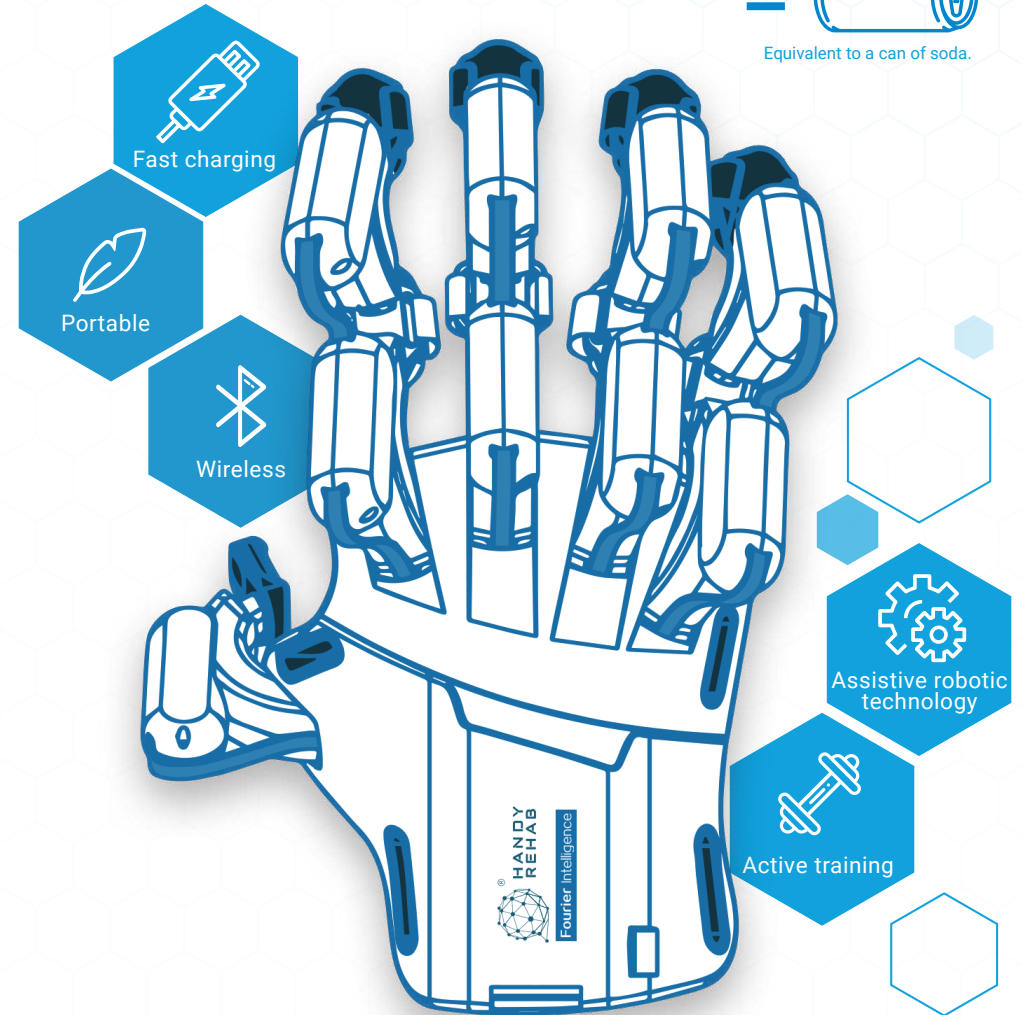


One of the World's Lightest Wireless Hand Gloves

380g



Equivalent to a can of soda.



Various Training Scenarios

HandyRehab™ can create various training scenarios by combining different gestures and training modes. The variety of the training scenarios can motivate the user to actively participate in the training.

Various Training Modes



It supports multiple hand function recovery trainings such as finger stretching, grasp, and finger opposition.

Active Assistive Training



It assists movements upon detecting the user's intention to move. Many therapists find this highly encouraging for users.

Task-oriented Training



It helps users to improve the skills needed for daily living and working. The light weight and wireless design allows users to undertake the task-oriented training with real-life objects.

Data Monitoring



Equipped with the movement parameter tracking and key performance measuring features which allows therapists to better track user's recovery progress.

Different Types of Grips

HandyRehab™ can act as an assistive device that enables users to conduct training with day-to-day objects and tasks to restore their hand function.

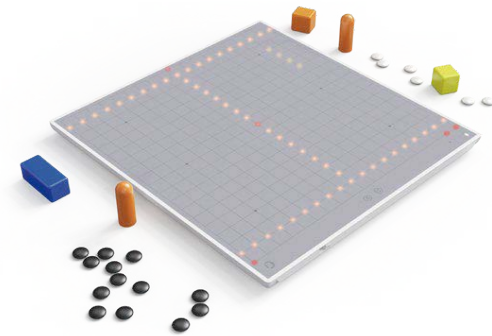




OTParvos™

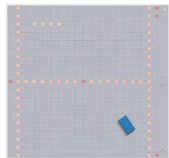
Digital OT Training System

OTParvos™ provides a portable intelligent solution for occupational therapy through the electromagnetic sensor, LED array, dynamic control algorithm, and AI. It can help motivate users in training by a variety of accessories and games to improve the motor control ability of the upper limb, fine motor ability of fingers, hand-eye coordination, and cognitive ability.



Multiple Training Types

OTParvos™ provides an extensive library of interactive games, which engage users in gamification training to improve multiple motor and cognition functions.



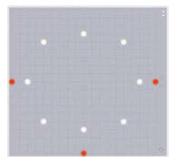
Pong

Improve hand-eye coordination and quick response ability.



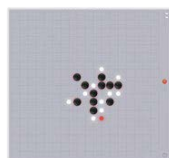
Puzzle

Practice attention, pattern recognition, and fine motor ability.



Trajectory

Improve motor control ability of upper limb based on task-oriented training.



Gomoku

Exercise upper limb movement ability and logical thinking.

Various Accessories Meet Various Training Needs

Besides the standard accessories, OTParvos™ can support daily equipment and traditional occupational training tools to be used as accessories by attaching the magnet to meet different hand function training needs.



Tip Pinch



Ball Grasp



Multiple-tip Pinch



Ball Pinch



Lateral Pinch



Cylindrical Grip



Wood Blocks



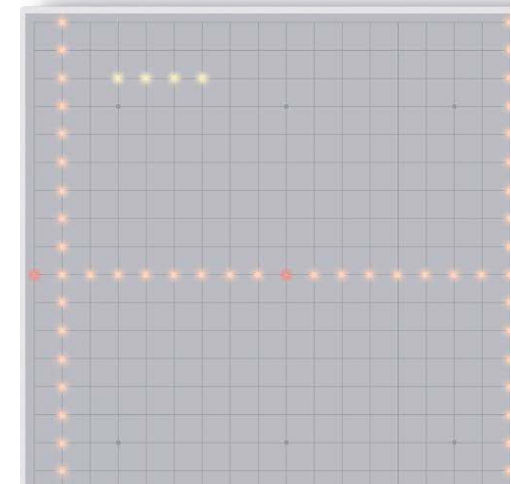
Wood Stick



Mouse



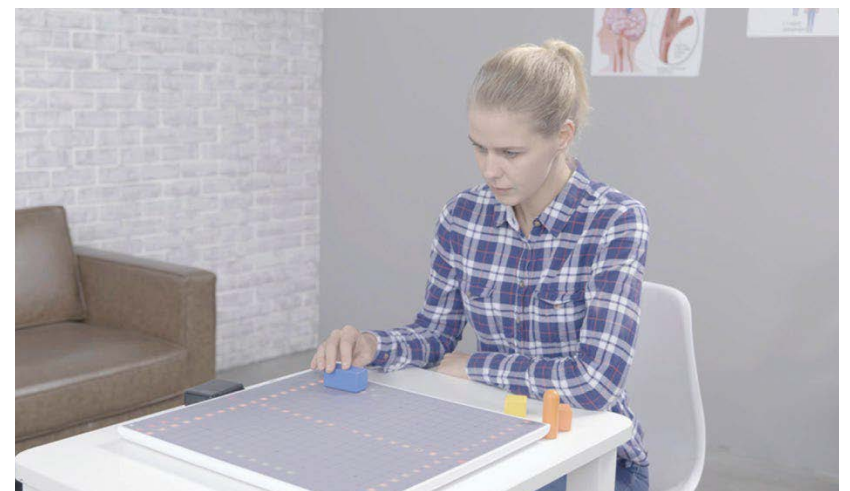
Chess Piece





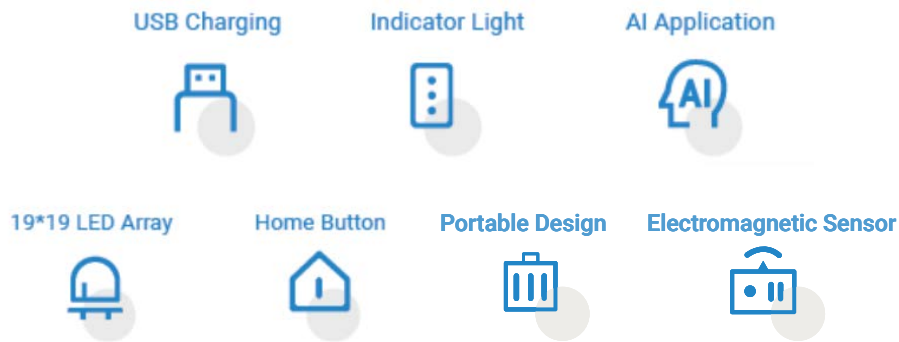
Interactive Training Motivate Users

Through collaboration or competition mechanisms, users can complete diversified training in the form of human-machine and human-human interaction, improving users' training enthusiasm and initiative.



Intuitive Interface

OTParvos™ is made easy to set up with its intuitive interface. Designed with 19*19 LED array training platform and indicator light, it is user-friendly and could provide different training experience to the users. Being lightweight and portable, OTParvos™ can be brought around anywhere.



ExoMotus™ M4

Lower Limb Rehabilitation Exoskeleton

ExoMotus™ M4 is the combination of a lower limb exoskeleton and a weight support system. It provides an effective and reliable walking assistive training by providing gait guidance. It equips with dynamic weight-supporting and various training scenarios, satisfies different training demands. ExoMotus™ M4 could effectively accelerate the recovery process and improve the quality of life. Besides, its fall prevention feature ensures the safety of the user and relieves the labour intensive workload of a therapist hence improving the rehabilitation efficiency.



1. Sit-stand

Lower limb exoskeleton to provide assistance for sit-stand training

2. Walking

Provide assistance and safety in gait training

Multiple Training Modes

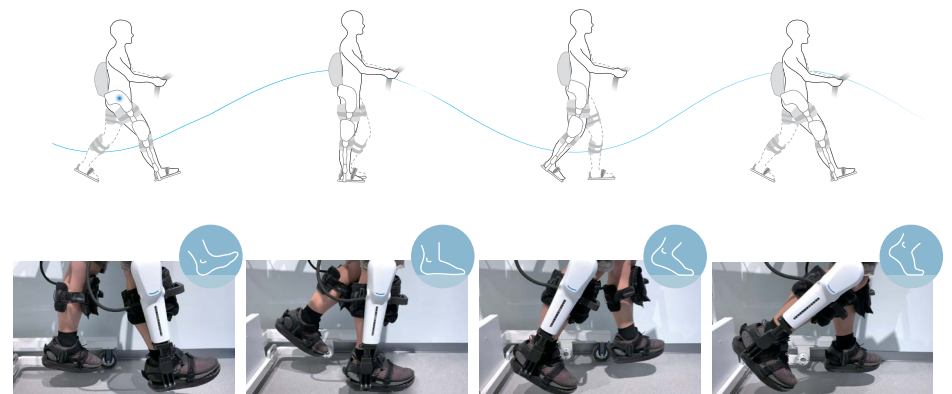


Users can perform sit to stand training at the early stage of rehabilitation to promote ideal sensory input, improve cardiopulmonary function, and prevent muscle atrophy.

Achieve rhythmic walking through an optimised gait cycle. Relieve muscle tone and minimise abnormal gait patterns.



Vertical DOF Ensuring Natural Gait Pattern





AnkleMotus™

Ankle Joint Rehabilitation Equipment

AnkleMotus™ targets on the rehabilitation of the ankle joint. It is designed based on the motion pattern of the ankle. It focuses on lower limb muscle strengthening, induces neuroplasticity for the muscle group involved in walking, hence regaining the ability.



Stretching

Ankle joint stretching to improve soft tissue tension



ROM Training

Improve the ROM of the ankle joint with different training modes



Motor Control Training

Improve motor control ability through targeted training



Strength Training

Simulating different resistance in the ADL to improve muscle strength



CycleMotus™

Active and Passive Training System

CycleMotus™ product series is the perfect solution for the upper and lower limbs training. It can be used in different environment as well as all stages of rehabilitation. It equips with a high-resolution touchscreen display and controlled motor system that allows it to fulfil the training requirements of different rehabilitation stages. The upper limb training can effectively improve cardiovascular health as well as strengthening the muscles group of the arm, upper body and shoulder. The lower limb training targets to strengthen the thigh and calf muscles as well as improving the balance.

Horizontal Training



Cross Cycling



Sync Cycling



CycleMotus™ A4
Active and Passive Training System
for Upper and Lower Limbs

Abundant Training Modes Provide Training for Different Positions

Based on the conditions of the user, training can be done in sitting or supine position. Besides, the different training modes can fulfil training requirements in the whole continuum of rehabilitation.



Lower limb training
Sitting position



Sitting position
Upper limb training



Lower limb training
Supine position on a treatment couch



Lower limb training

Supine position on a hospital bed



Sync Cycling



Horizontal Training



Cross Cycling

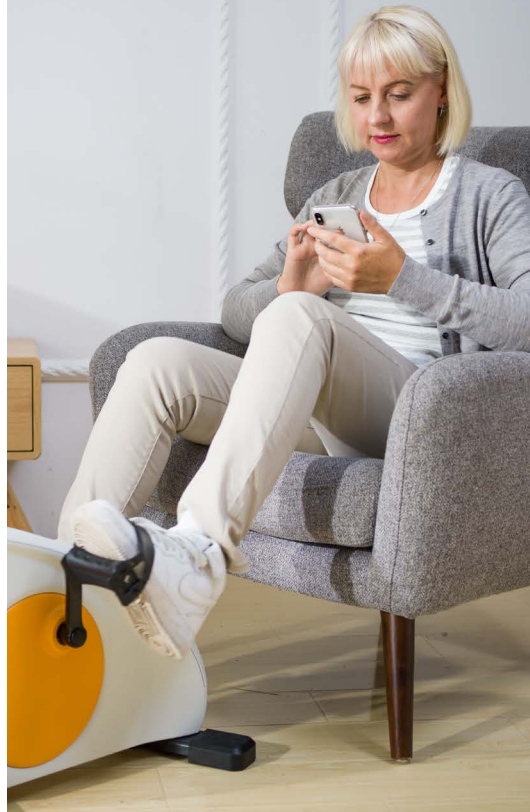


CycleMotus™ A4K



CycleMotus™ B2L





CycleMotus™ H1 with New Horizons

CycleMotus™ H1 is a home-based cycling device for the upper and lower limb. Comfortable handles are designed for different training positions, either in sitting or lying positions at any given time. New Horizons is a virtual reality exercise platform for training the body and mind. The integration between CycleMotus™ H1 and New Horizons encourages exercise for users with limited mobility. Users tend to forget the limitations and pain, and this helps to leverage the training experience positively.

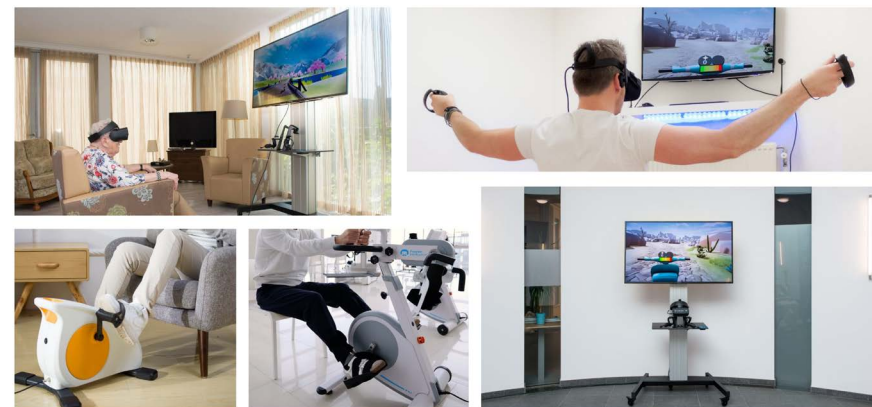
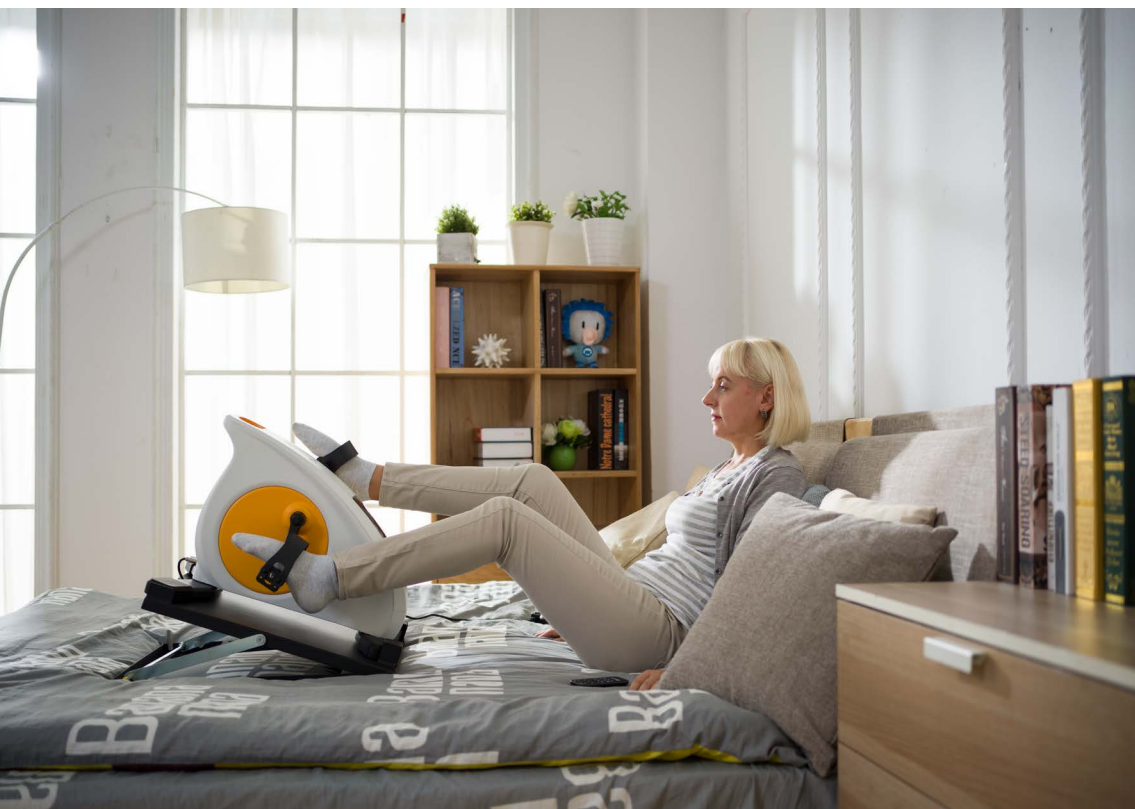
New Horizons

New Horizons is an extended reality platform providing a more fun, motivating and immersive experience to the physical training.

- Immersive
- Intuitive
- Interactive
- Intelligent

New Horizons Add On

New Horizons can be immediately added on to CycleMotus™ H1. It can be integrated with future CycleMotus™ A4 and CycleMotus™ B2L. As for non-Fourier bike, an additional sensor can be added to allow it to pair with New Horizons.



1,000,000m² to be Discovered



Winter Wonderland



Asian Sphere



Indian Desert

Key Features



2 TRAININGS

Arm Training with Oculus Grip and legs training with a bike.



3 ROUTES

Choose between the routes of 500m, 1000m and 2000m.



4 ACHIEVEMENTS

Multiple items hidden throughout the world. Explore, collect them all and don't forget to enjoy your time!



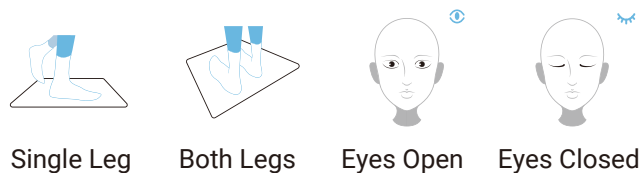
PelmaMotus™

PelmaMotus™ integrates assessment and training by adopting a large area of pressure sensor array, high-speed acquisition circuit, and intelligent analysis software.

Combined with biomechanics and assessment database, PelmaMotus™ can accurately and quickly assess the functional status of the foot, posture, and balance. It also provides targeted, immersive, and interactive gamified training. .



Comprehensive Data Acquisition Various Scenarios and Options



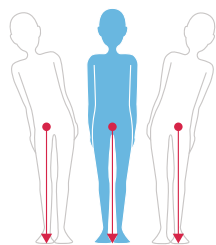
4 Assessment Options

Balance assessment with different supports and visual inputs



3 Assessment Scenarios

Difference assessment scenarios for different stages of rehabilitation



17 COP Parameters

Balance, proprioception, vestibular system, vision, and others

Multiple Assessments Foot Plantar Pressure, Balance and Posture

PelmaMotus™ integrates three assessment modules, which are balance function, foot plantar conditions and body posture. The comprehensive and professional assessments provide references for personalised balance training. They can be used as a reference for the customisation of lower limb supporting accessories.

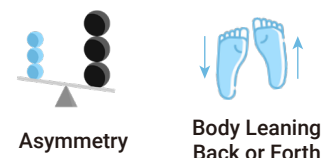
Balance



Foot Plantar Pressure



Standing Posture





RestoreFortis™ MyndMove™

Comprehensive Functional Electrical Stimulation

RestoreFortis™ MyndMove™ is a non-invasive functional electrical stimulation (FES) therapy for patients with patented and specific protocols indicated for upper limb paralysis patients following stroke or spinal cord injury.



Portable &
Lightweight



Well-tolerated
FES



Extensive
Research



Step-by-step
Visual Guidance

Patented Protocols

RestoreFortis™ MyndMove™ FES therapy has 8 channels and over 30 embedded protocols that allow clinicians to stimulate natural, purposeful, functional movements in patients. This dynamic therapy can treat the whole arm from shoulder to fingers (Unilateral and Bilateral protocols).



Patented stimulation protocols for the intrinsic hand muscles and gripping movements.

Functional Therapy

RestoreFortis™ MyndMove™ is able to treat the whole arm from shoulders to fingers, stimulating natural, purposeful and functional movements. The unique waveform shape and stimulation by our proprietary device make the FES treatment well-tolerated leading to enhanced patient compliance.

- Lateral Pinch
- Pinch Grasp
- Palmar Grasp
- Tripod Grasp
- Lumbrical Grasp
- Bilateral Grasp
- Forward Reach
- Side Reach

Integrated Approach

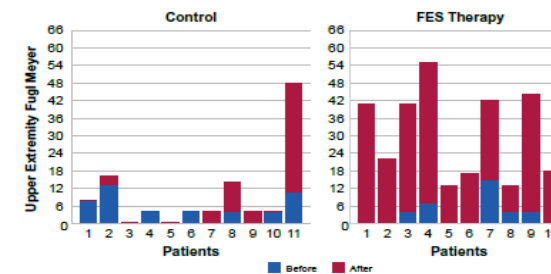
RestoreFortis™ MyndMove™ believes that the patient, the therapist and the device play an equally important role in maximising recovery, by this principle comes the choice to design a product that allows therapists to tailor treatment to the needs of each individual patient.



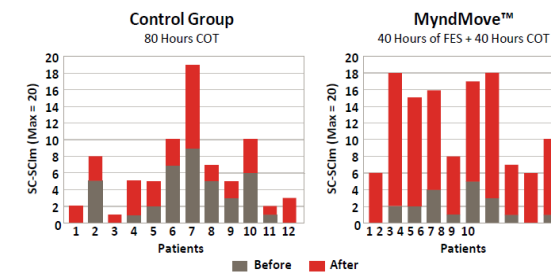
Impactful Clinical Outcomes

Through extensive research on SCI and stroke patients with upper limb paralysis, the RestoreFortis™ MyndMove™ has ample clinical evidence demonstrating its significance in improving clinical outcomes of therapy.

12 published journal articles which indicate significantly better outcomes when using RestoreFortis™ MyndMove™ stimulation compared with conventional therapy interventions.



Clinically significant gain in UE-FMA for patients with severe upper extremity paralysis under RestoreFortis™ MyndMove™ therapy compared to conventional therapy interventions (1)



Clinically significant gains in SC-SCIm scores in SCI Patients undergoing combination of RestoreFortis™ MyndMove™ FES and COT compared to conventional therapy interventions. (2)

1. Marquez-Chin et al. Canadian Journal of Occupational Therapy. 2017;84(2) 87-97.
2. Kapadia N. et al. The Journal of Spinal Cord Medicine. 2014;37(6):734-743.

AirFortis™

Intermittent Pneumatic Compression Therapy System

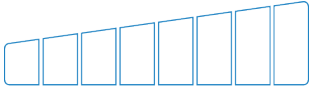


AirFortis™

AirFortis™ is an intermittent pneumatic compression (IPC) device with a monitor to control the inflatable garments that are wrapped around the limbs. With the availability of different treatment modes, the inflating and deflating movements of device provide sequential compression on the limbs. This will help to promote the flow of tissue fluid, blood, and lymphatic circulation, thereby preventing deep vein thrombosis (DVT) and reducing oedema.



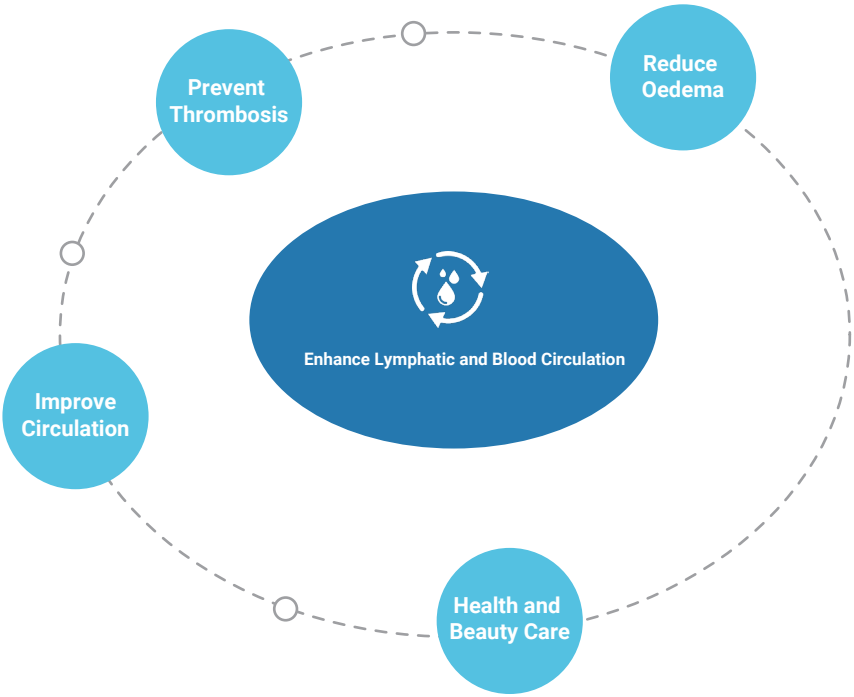
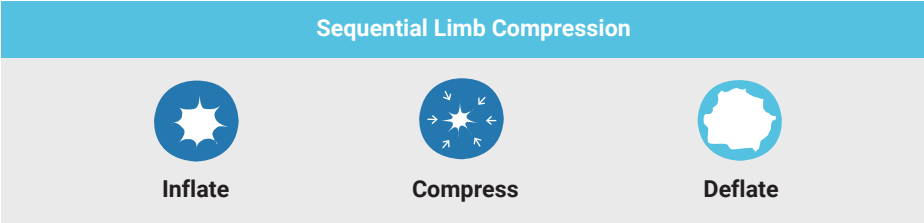
AirFortis™
4 Chambers



AirFortis™
8 Chambers

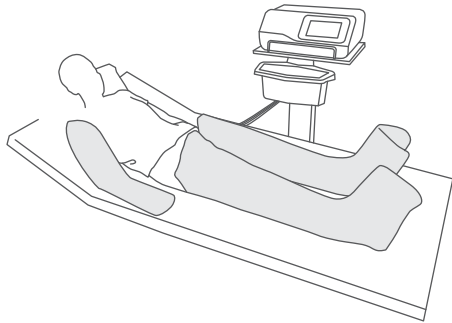


Key Features



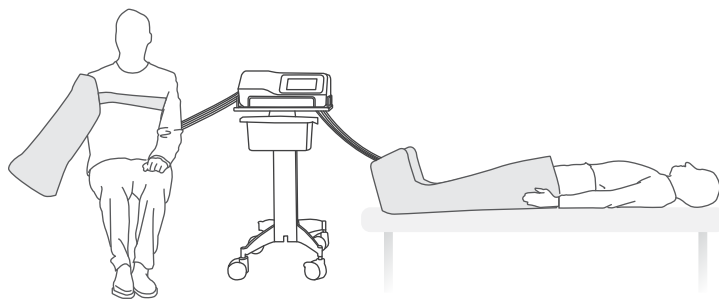
Two-channel Output

AirFortis™ consists of two independent adjustable channel outputs to allow single-patient or dual-patient treatment. For single-patient treatment, AirFortis™ can provide treatment on both upper and lower limbs. For dual-patient treatment, two patients can be treated simultaneously in different modes. This feature helps to save space and time, leading to improved treatment efficiency.



Single-patient Treatment

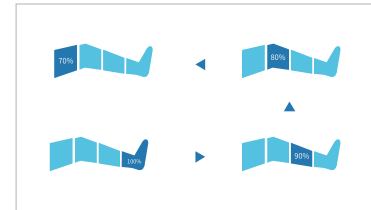
Patients can be treated for either both upper limbs, both lower limbs or each of the upper and lower limbs to meet different treatment needs.



Dual-patient Treatment

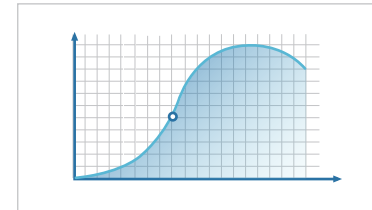
With two independent adjustable channel outputs, concurrent treatments for two different patients are achievable with the treatment efficiency being increased.

User-friendly Design Safe and Comfortable



Pressure Gradient

Ensure the flow of blood and tissue fluid in one direction to prevent damage to venous valves.



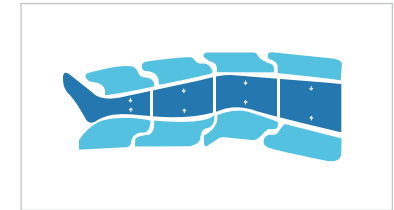
Real-time Pressure Monitoring

Each chamber consists of built-in pressure sensors to monitor the real-time pressure.



Overpressure Protection

Chamber pressure will not exceed the maximum allowable pressure in any scenario.



Overlapping Chamber Design

Overlapping chambers eliminate pinch points to provide more comfortable treatment.



Automatic Pressure Relief Protection

Pressure releases within 2 seconds during emergency stop to prevent injury.



Silent Operation and Misconnection Prevention

Low noise level of below 60db; Tubes are designed to match specific garment connector ports to prevent misconnection.

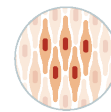


ShockwaveFortis™

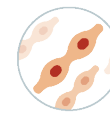
ShockwaveFortis™ uses 10" monitor that controls compressed air to generate kinetic energy in the tube projectile. Through the applicator, the projectile generates radial shockwaves. Different applicators can be used for different depths of body tissue, with a maximum of 45mm penetration depth. Musculoskeletal pain conditions can be treated through the mechanical, cavitation, and thermal effect of the shockwave by relieving the tissue adhesion, unclogging occluded capillaries, and promoting tissue regeneration.



Therapeutic Effects



Aids in Repairing
Damaged Tissue



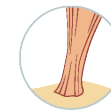
Loosen the
Tissue Adhesion



Vasodilation and
Angiogenesis

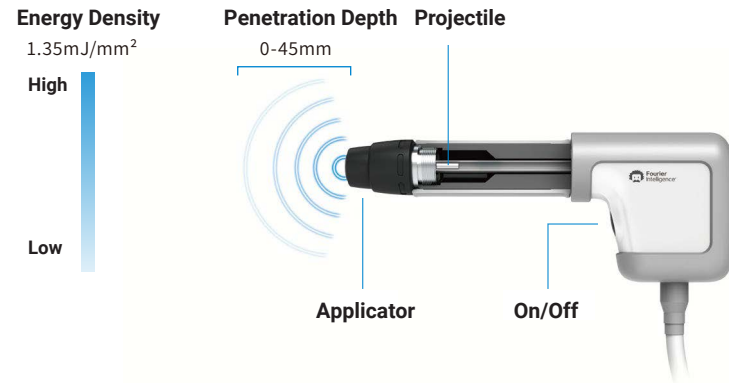


Analgesic Effect



Lysis of High-density
Tissues

Ergonomic Handpiece



A Variety of Applicators

Up to maximum penetration depth of 45mm



Applicator Diameter : 10mm
 Max Penetration Depth : 19mm
 Max Energy Density : 1.35mJ/mm²



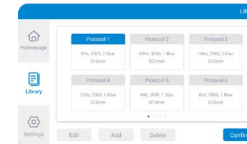
Applicator Diameter : 15mm
 Max Penetration Depth : 30mm
 Max Energy Density : 0.45mJ/mm²



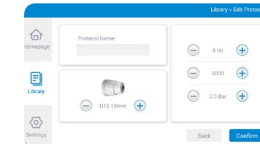
Applicator Diameter : 21mm
 Max Penetration Depth : 45mm
 Max Energy Density : 0.2mJ/mm²

10.1-inch Touchscreen Monitor

HD Display, Easy to Operate



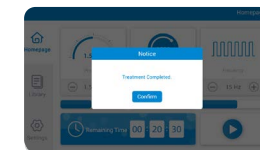
Quick Operation
 Built-in 18 protocols, can be quickly set.



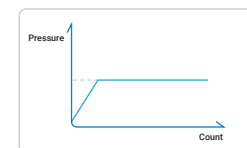
Library Management
 Edit, add, delete options.



Personalised Treatment
 Treatment parameters can be adjustable according to different patients.



Feedback and Monitoring
 Real-time monitoring of equipment operating status and handpiece connection status to ensure the normal operation of product.



Gradual Pressure Increase
 Patient gradually adapts to the increasing intensity, achieve the maximum effective treatment pressure with improved comfort.



Real-time Pressure Monitoring
 Avoid abnormal operation of the equipment, excessive or below pressure set, causing discomfort to the patient or resulting in ineffective treatment.



Empowering You

Fourier Intelligence is a technology-driven company, infusing creativity into the development of exoskeleton and rehabilitation robotics since 2015. Together with researchers, therapists and patients, we aim to excel in developing and redefining rehabilitation robotics solutions with interconnectable intelligent robotics technology by elevating user experience with an intuitive, easy-to-use system to enhance the lives of both patients and therapists.

Fourier Global Research Joint Laboratories and Clinical Partners



Imperial College
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Klinik Wijaya



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South Australia



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COMPASSION WITH EXCELLENCE



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Fourier Intelligence RehabHub™
