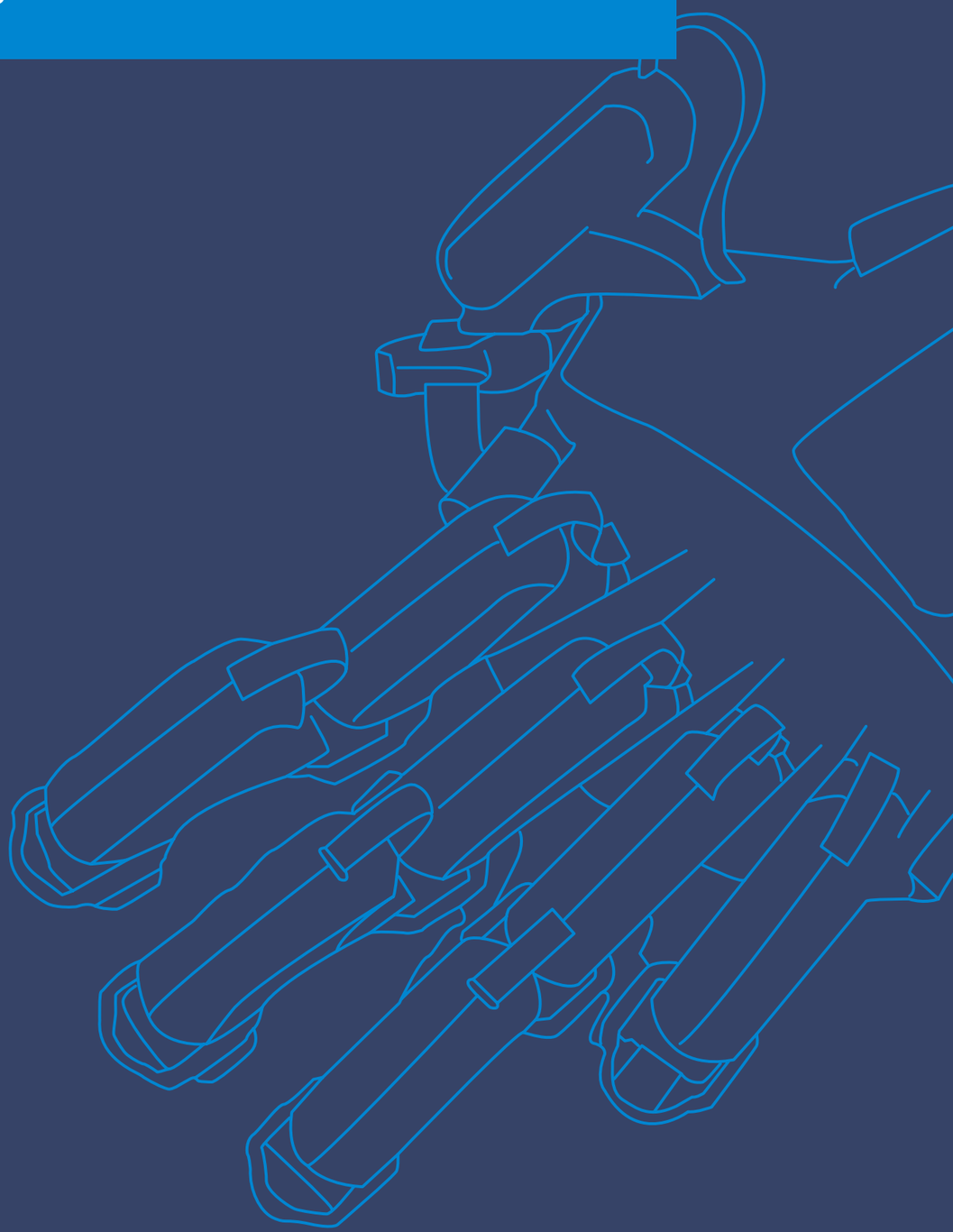
Fourier Intelligence

Fourier Intelligence Global Partnership Network

HandyRehab™

Intelligent Hand Rehabilitation Robotics



www.fftai.com

info@fftai.com

@FourierIntelligence

@FourierIntelligence

Shanghai Headquarter

Floor 3, Building No.1,
88 Chenhui Road, Pudong New Area,
Shanghai , China, 201203
Tel: +86 021 50308716

International Hub

Fourier Intelligence International
Pte. Ltd.
Marina One West Tower,
9 Straits View #05-07
Singapore 018937
Tel: +65 6911 6651

Malaysia Corporate Office

Fourier Intelligence Sdn. Bhd,
Unit 32-01, Tower B,
The Vertical Corporate Towers,
Avenue 10, Bangsar South,
No. 8, Jalan Kerinchi, 59200,
Kuala Lumpur, Malaysia
Tel: +603 2786 3589

HandyRehab™

Intelligent Hand Rehabilitation Robotics

HandyRehab™ is an intelligent hand rehabilitation robotic glove that assists users to mobilise their fingers. Each finger can be actuated separately and when mobilised together, different hand gestures can be positioned.

Multiple Training Modes

Fine finger motor skill training has always been the pain point of rehabilitation. HandyRehab™ is equipped with 8 individual motors which allows it to carry out complex hand function training. The integration of EMG sensors can provide different training scenarios such as passive, active assistive as well as functional training.

Passive Training

Active Assistive Training

Functional Training

Mirror Therapy Training

Portable

Wireless Design

Quick-charge

Assistive Robotic Technology

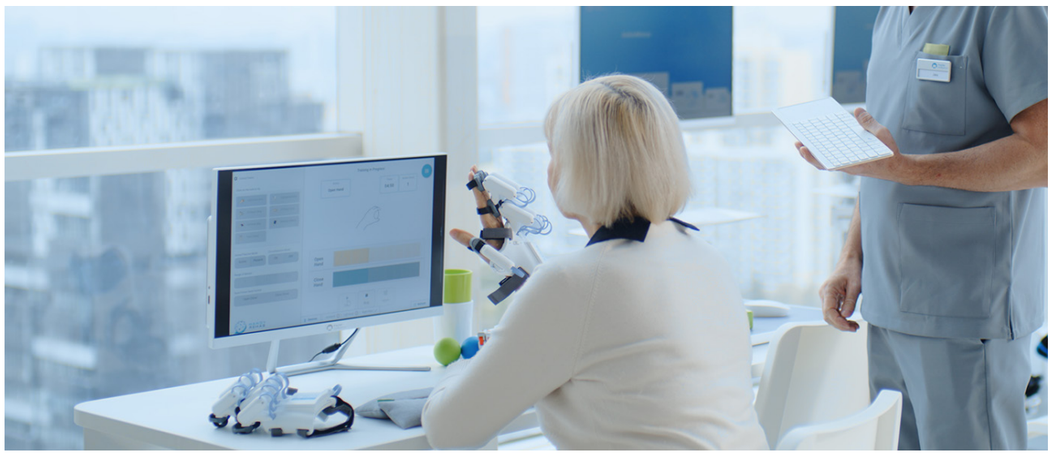
Active Training

Enjoy the Whole Training Process

An extensive library of interactive and customisable training modes can guide the user to complete fine finger motor skill training through audio and visual inputs, which can retain the user's interest and achieve rehabilitation purposes at the same time.

Measurable Training

Rehabilitation robotics allow users to quantify their trainings. HandyRehab™ integrates EMG sensor which tracks the user's active participation. The auto-generated training reports provide measurable results for the user's reference. This also helps a therapist to better understand the patient's condition hence providing better training outcomes.



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.

Functional Training

HandyRehab™ helps users improve the skills needed for daily living and working. The lightweight and wireless design of the HandyRehab™ assists users to improve and redevelop motor skills for daily living and working, by allowing them to carry out task-oriented training while interacting with real life objects. The HandyRehab™ also supports home use and can be used as an assistive device to improve an individual's quality of daily living.

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

BARROW Neurological Institute

The University of Melbourne

Imperial College London

Shirley Ryan Abilitylab

MIT

ETH zürich

The Hong Kong Polytechnic University 香港理工大學

The Royal Melbourne Hospital

hobbs rehabilitation Neurological Specialists

Building Reliable Advances and BRAIN Innovations in Neurotechnology

ASU Arizona State University

Universiti Teknologi MARA

bardomed

Khoo Teck Puat Hospital National Healthcare Group

Tan Tock Seng Hospital

Polskie Centrum Rehabilitacji Funkcjonalnej Votum

University of Malaya Medical Centre

Sunway Medical Centre

ReGen Rehab

Klinik Wijaya

KPJ Healthcare KPJ Tawakkal Health Centre