

WristMotus™ Wrist Joint Rehabilitation Robot

(Product model: M1-W)

Through motor control exercises such as forearm pronation/supination, wrist curl and wrist radial deviation, Fourier Intelligence WristMotus™ wrist joint rehabilitation robotics can improve the user's ability to perform ADL (activities of daily living) like eating, wringing a towel and pouring water. WristMotus™ complements the gross motor function training administered by ArmMotus™.

✔ **Full Coverage of the Whole Rehabilitation Period**

Smart assistive force adjustment responds to various needs of patients with muscle strength on a scale of 0 to 5 -- from acute stage rehabilitation to chronic stage rehabilitation.

✔ **Multiple Training Programmes**

Professional and customised programmes for each and every user, including motor control, muscle strength training and stretching exercises.

✔ **Digitisation of the Whole Therapy Process**

The device provides accurate and objective assessment of every movement in terms of motion indicators. An analysis report is only a button press away.

✔ **Easy to Use**

Human-centered interaction design. The user can sit down and start therapy within 1 minute. The device is designed to train 15 people each day on average.



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WristMotus™





Wrist Joint Rehabilitation Robotics



(Code name: M1-W)





Multiple Training Modes Integrated in One Device

Fourier Intelligence WristMotus™ wrist joint rehabilitation robotics comprises different types of training modes. Built for users with muscle strength on a scale of 0 to 5, the device enables revolutionary treatment featuring the integration of motor control exercises with cognitive training, and muscle strength rehabilitation with ADL training.

-  Passive mode (0 muscle strength)
Initiate rehabilitation at the acute stage
-  Assistive mode (1-2 muscle strength)
Encourage the user to take initiative
-  Active mode (3 muscle strength)
Optimise upper limb fine motor skills
-  Resistive mode (4-5 muscle strength)
Challenge the user with increased difficulty

-  **Cognitive Exercises**
Train the user on visual perception, attention, memory and so on. Improve the user's cognitive ability
-  **ROM Exercises**
Improve range of motion (ROM) of the user's joints through active and passive training

-  **Motor Control Exercises**
Improve the user's motor control ability through targeted training
-  **Muscle Strength Exercises**
Build up muscle strength by working against resistance produced to mimic real-life scenarios






Rehabilitation is Fun with Immersive Experience

Integrated with diverse gaming scenes and through multisensory interaction and feedback involving hearing, seeing and touching, different kinds of training modes will guide the user to concentrate on therapy. The process also becomes a lot less tedious or boring, as the user completes a set of professional rehabilitation exercises while indulging in gaming experience.



Changeable Parts

Components are adaptable depending on the conditions of patients' wrists. A rich variety of parts meet varied needs of different users.

-  ① wrist curl
-  ② handle
-  ③ wrist radial deviation
-  ④ rotation
-  ⑤ forearm pronation/supination

Training Results Appear in a Chart and Are Easy to Understand

Want to know how effective the therapy is? Review it on the spot!

Through multi-dimensional sensors and position sensors, Fourier Intelligence rehabilitation robotics keep track of data generated by the user's every movement. The device supports assessment of such abilities as ROM and muscle strength. By comparing data between different assessment results, the robotics are capable of offering better training plans. A report is automated at the end of every training session, providing quantifiable statistical reference for the therapy process.

