XFT

XFT-2005A
Rehabilitation Robot

Technology Upgrades
Our Life

CE FC

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The world's leading provider of rehabilitation medical devices and solutions

The Newest Rehab tool for the hand

- A hand rehabilitation device that combines EMG electromyographic feedback via an armband and flexible pneumatic robotic glove.
- Uses a flexible comfortable air-activated system.
- Multiple preset training programs for passive, active, and resistive training and a mirror training component.
- Specific programs for full hand movements, finger tip touch training and single finger training, to promote gross and fine motor skills.
- Improves motor function, decreases muscle atrophy, and improves range of motion.

Who can benefit from the XFT Rehab Robot Glove technology:

Diagnosis includes but are not limited to:

- Stroke
- Multiple Sclerosis
- Brain Injury
- Spinal Cord Injury
- Other neurological conditions or injuries affecting the hand
- Orthopedic conditions affecting the hand

Six functional training modes

Extension and Flexion Training Mode

Finger Tip Touch Training Mode

Single Finger Training Mode

Power Assist Training Mode

Resistance Training Mode

Mirror Training Mode

The Pneumatic Robotic Glove is:

- Carefully designed to simulate the human hand structure
- Allows active, passive, and resisted rehabilitation
- Allows single finger movement for fine motor tasks such as finger opposition and various different grasps
- Ability to adjust air pressure to adapt to patient's specific strengths and weaknesses

Selection of Size

		
Size	**Hand Length**	**Hand Width**
S	**6-6.5inch** (150~170mm)	**2.5-3inch** (65~75mm)
M	**6.5-7.4inch** (170~190mm)	**3-3.3inch** (75~85mm)
L	**7.4-8.2inch** (190~210mm)	**3.3-3.7inch** (85~95mm)

Innovative Mirror Therapy

The unaffected hand drives the affected hand to do action synchronously, activates the mirror neurons, copies the unaffected hand motor neural pathway to the affected hand, promotes the autonomic recovery of the brain and speeds up the rehabilitation of the hand function.

How does the EMG function work?

- The **EMG Armband** monitors the EMG signal from the unaffected or involved upper limb. This triggers the robotic glove to initiate movement.
- This type of active learning:
  - Enhances patients motor function
  - Promotes optimal learning
  - Prevents muscle atrophy
- The EMG armband on the affected upper limb to measure **increases in muscle activity and progression** of patient's recovery.

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