

**SYREBO**

# Hand Rehabilitation Robot

## SY-HR10A



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Hand Rehabilitation System SY-HR10A is an upgraded version of our clinical product line. A new model is adopted in this version that makes the appearance of the product more streamline-looking, which presents a simplified outlook. Furthermore, the basic parameter-adjusting function has been upgraded all around. Most of the parameters can be adjusted in 9 grades, and a 9-grade divided bar is integrated into the training screen, so the patients can adjust the parameters easily while training.



# Applicable people and departments

Patients with hand dysfunction caused by stroke, brain injury, hand trauma, cerebral palsy, orthopedic surgery, lymphedema after breast cancer treatment, etc.



Rehabilitation Department



Stroke Center



Neurosurgery Department



Neurology Department



Geriatric Department



Pediatric Department



Orthopaedic Department



Physicaltherapy Department

## 9 grades adjustable parameter



## Adjusting while training



## Streamlined & simplified design, easy to operate.



## Function Introduction

- Cyclic

The power glove can drive the affected hand to execute repetitive exercises, and the patient can simultaneously see the 3D model of this hand on the screen. The finger gesture can be customized, and a 9-grade divided bar beside the model can let the patient adjust glove strength during training.



- Bilateral

The healthy hand is used to drive the affected hand to achieve grasping action. And the simultaneous visual effects and proprioceptive feedback (feeling and seeing hand) are able to stimulate patients' neuroplasticity.



- Intention Driven

The high-precision sensor recognizes the weak active movements of the affected hand, then the glove assists the patient to actively complete the hand activities and accelerates the recovery of hand function. An adjusting module similar to the Cyclic training is also presented and can change the sensitivity of the sensor in 9 grades.



- Active-virtual

Multi-interactive hand & brain combined games enhance the immersion of hand rehabilitation, make training more interesting, and improve patients willingness to participate actively.



- Active-Resistive

Power glove will give the patient an opposite force, and the patient needs to complete the flexion and extension exercises under resistance. Patient can use the adjusting module to change the resistive strength in 9 grades.



- Active-Grasping

A grip dynamometer combines with more interactive games, letting patients develop their grip strength with immersive experience. Patient can use the adjusting module to change the grip threshold of the game interaction in 9 grades.



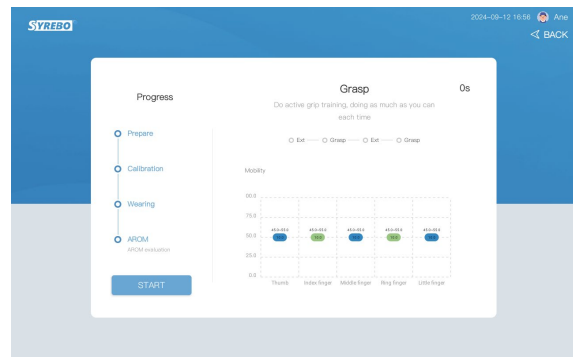
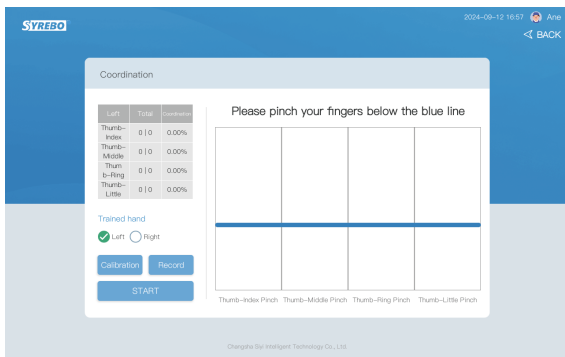
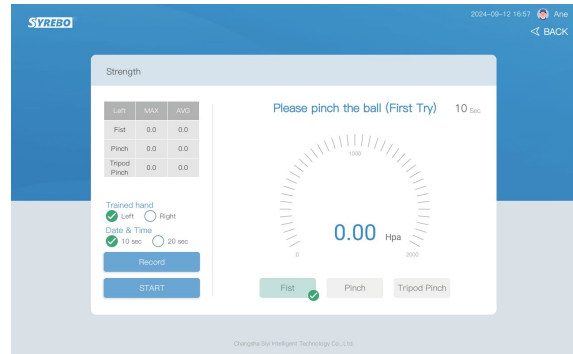
- Random gesture

Different sets of finger gestures regarding the difficulty setting are presented on the screen, guiding the patient to do a series of training, which requires strength and coordination. Patient can use the adjusting module to change the difficulty in 9 grades.



- Assessments

Patients can perform finger range of motion, strength, and coordination assessments. Data-based reports allow therapists to track patients progress.



## Targeted training for different muscle strength

Training Mode	Muscle strength of the hand		
	Gr.*0-1	Gr.*2	Gr.*≥3
Cyclic	✓	—	—
Intention Driven	—	✓	—
Active-virtual	—	—	✓
Active-Resistive	—	—	✓
Bilateral	✓	✓	✓

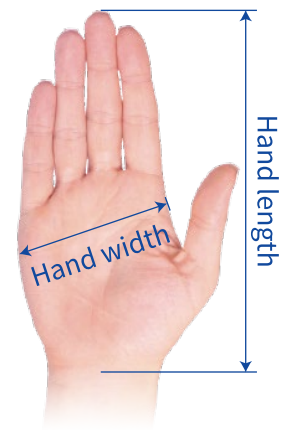
\*Manual Muscle Testing Grades

## Specification

<b>Model</b>	<b>Size of host</b>
SY-HR10A	290*270*198 (mm)
<b>Charge voltage</b>	<b>Charge frequency</b>
100-240V	50-60Hz

## Size option

Model	Hand length (in.)	Hand width (in.)
#5 (Child)	4.3~5.0	2.0~2.2
#7 (Child)	4.7~5.3	2.2~2.4
#9 (Child)	5.0~5.5	2.4~2.6
#12 (Child)	5.4~6.0	2.6~2.8
S	5.7~6.5	2.8~3.1
M	6.3~7.3	3.1~3.7
L	7.1~7.8	3.6~4.1
XL	7.7~8.3	3.9~4.6



**80<sup>+</sup>** Countries & regions

**4000<sup>+</sup>** Medical units

**60000<sup>+</sup>** Families



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