

Physiotherapy & Rehabilitation



Meissa OT

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Meissa OT is an advanced robot designed for upper limb rehabilitation. It serves both as a training and assessment tool, utilizing a 4-channel EMG/EMS (Electromyography/Electrical Muscle Stimulation) system.

The primary functions of the Meissa OT robot include

- Continuous Active Motion (CAM) - allowing patients to perform controlled active movements to improve
- Continuous Passive Motion (CPM) - supporting passive limb movement, especially beneficial for those with limited mobility
- EMG-Triggered Robotic Assistive Movement the system responds to EMG signals, enabling patients to control the robot's movement with their own muscles
- Electromyography Measurement and Biofeedback (EMG Biofeedback) the robot can measure EMG signals and provide feedback to help patients better understand and control their muscles
- Electrical Muscle Stimulation (EMS) - the device can stimulate muscles using electrical impulses, aiding in the rehabilitation process
- Electromyography-Triggered Electrical Muscle Stimulation (EMG EMS) - this feature allows precise adjustment of muscle stimulation to the patient's muscle activity

Meissa OT enables rehabilitation through

- Assessment and training of various types of grips: cylindrical, pincer, hook, palmar, tweezers, spherical and lateral
- Functional exercises, activities of daily living (ADL) with variable strength
- Active-assistive exercises with supported movement of the upper limb (EMG activated)
- Exercises for flexion/extension and abduction/adduction of the wrist and pronation/supination of the forearm
- Each movement enables synchronised electromyography with electrostimulation, supporting muscle contraction during movement phases (Lovett D-5)
- Engaging Rehabilitation games and EMG BIOFeedback
- EMS & EMG triggered electrical muscle stimulation
- Motor with easy adjustable axis of movement





Engaging Rehabilitation games and EMG BIOFeedback

Motor with easy adjustable axis of movement



Force Sensors

EXCHANGABLE EXTENSIONS for occupational therapy

WHAT IS INCLUDED IN MEISSA OT

- Force Sensors
- EXCHANGABLE EXTENSIONS for occupational therapy
- Extensions for elementary and occupational therapy movements of the hand and fingers (ball key, screwdriver, knob door handle)
- Easy to use with quick and simple exchange of extensions and touchscreen operation
- Device mounted to the table top and easy to adjust axis of movement to the patient
- Can be rotated in relation to the platform horizontally in a range of 180° to 180 and vertically in the range of 0 to 90°
- Pre-set therapeutic protocols and therapeutic games
- Programs for home therapy and telerehabilitation

INTENDED USE FOR NEUROLOGICAL AND ORTHOPAEDIC PATIENT

- Helps to relearn voluntary motor functions of the upper extremities
- Maintaining or increasing range of motion
- Measurement evaluation and increase of upper limbs strength
- Relaxation of muscle spasms
- Prevention or retardation of disuse atrophy
- Increasing local blood circulation

EVALUATION

- Range of Motion
- Force
- Muscle activity

Meissa OT is an advanced rehabilitation robot that is suitable for both adults and children, providing effective rehabilitation solutions for in-clinic and home-use applications.



ONE STOP SHOP FOR ALL YOUR PHYSIO AND REHAB NEEDS

Bracing & Supports
Physiotherapy Modalities
rPMS

Spinal Decompression Therapy
Transcranial Magnetic Stimulation

Hot & Cold Therapy

Exercise Therapy

Cryo Chamber

Treatment Tables

Hydrotherapy Pool

Underwater Treadmill

Virtual Rehab

Balancing Platform

GAIT Lab

Isokinetic System

NeuroRehabilitation Robot

Robotic GAIT Trainer

Spine & Whole Body Analysis

Imported & Marketed by

Cnergy Incorporation

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