

Armeo®Spring

MANOVO®SPRING

The ManovoSpring was specifically designed for training grasp and release movements in patients with impaired hand functions. The combination of the ManovoSpring with the ArmeoSpring is the only solution for repetitive, self-initiated reach and grasp training with arm weight support in a large 3D workspace. It simultaneously incorporates the entire arm and hand, from shoulder to fingers, and thereby assures the most efficient and functional rehabilitation training.



**AVAILABLE IN COMBINATION WITH
THE ARMEO®SPRING ONLY**

PHYSIOLOGICAL HAND MOVEMENT SUPPORT

The adjustable spring mechanism of the ManovoSpring was specifically designed to counteract the high tone of the flexor muscles and to support the weaker extensor muscles. In each stage of hand opening it brings in a physiologic amount of force needed to open the hand while coupling finger and thumb movements. Thereby, also patients who show only limited active movement in their fingers can participate in intense, repetitive hand movement exercises.¹

MOTIVATING EXERCISES

An extensive library of motivating game-like Augmented Performance Feedback exercises has been designed to train core movement patterns that are commonly used in activities of daily living. The ManovoSpring (in combination with the ArmeoSpring) captures the patient's active hand movements and facilitates repeated training of reach and retrieval movements.

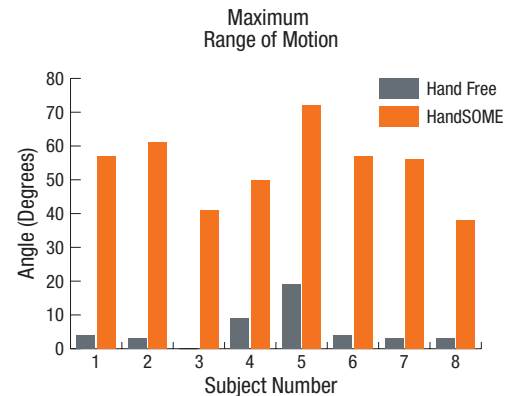


REFERENCE

1 Brokaw EB, Black I, Holley RJ, Lum PS. Hand Spring Operated Movement Enhancer (HandSOME): a portable, passive hand exoskeleton for stroke rehabilitation. IEEE Trans Neural Syst Rehabil Eng. 2011 Aug;19(4):391-9. Epub 2011 May 27.

SCIENTIFIC RESULTS

The ManovoSpring was developed in close collaboration with research partners. In pilot trials with the research prototype of the ManovoSpring (HandSOME device), stroke patients showed a large increase in opening and closing of the hand (see graph) as well as an increased ability for grasping of objects.¹



PART OF THE ARMEO® THERAPY CONCEPT

The ManovoSpring is part of the unique and modular Armeo Therapy Concept, the world's first upper extremity concept that covers the whole "Continuum of Rehabilitation" with one software platform throughout a range of devices, each developed for a specific stage of rehabilitation – from early rehabilitation to long-term recovery.

CONTACT US

Hocoma AG
Industriestrasse 4
8604 Volketswil
Switzerland

Phone: +41 43 444 2200
E-mail: info@hocoma.com
www.hocoma.com



PRODUCT DISCLAIMER

All Hocoma products are medical devices and must be used in strict adherence to the User Manual; failure to do so may result in serious personal injury. It is strongly recommended that you regularly consult Hocoma's website (www.hocoma.com/legalnotes) for the latest available information. Please contact Hocoma should you have any questions. Use only under the supervision of qualified medical personnel. However, certain Hocoma products are marketed for home use and must be strictly used according to the recommendations of your medical care provider who is knowledgeable about your specific needs. Consult the User Manual and Hocoma's website (www.hocoma.com/legalnotes) for appropriate product designation. Failure to obtain and follow the recommendations of your medical care provider may result in serious personal injury. This information provides details about medical products which may not be available in all countries and may not have received approval or market clearance by all governmental regulatory bodies throughout the world. Nothing herein should be construed as a solicitation or promotion of any product or of an indication of any specific use for any product which is not authorised by the laws and regulations of the country where the reader of this information resides.