

hu

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The new era of rehabilitation is now



Are you looking to
improve your
rehab process?

Would you like to
measure the
outcome and trace
the rehabilitation
progress?

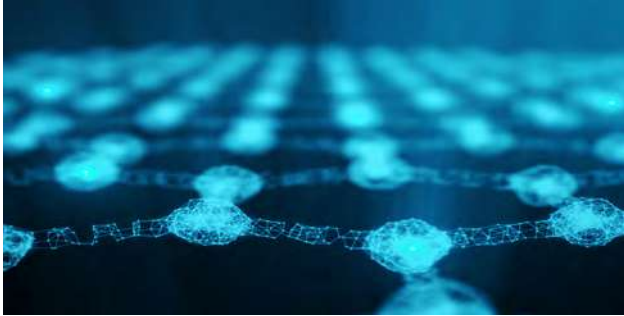
Would you like to
measure the
outcome and trace
the rehabilitation
progress?

Would you like
to present the
exercises as a
game?

The robotic rehabilitation system
that supports doctors, physiotherapists,
and patients throughout
the course of treatment.

What is hunova

hunova is a robotic system designed in
response to a clinical need for objective
evaluation and rehabilitation tools that support
doctors, physiotherapists,
and patients throughout the course
of the treatment and recovery.



The origins of Movendo Technology

IIT and Dompé farmaceutici

Movendo Technology was born from the know-how of the Istituto Italiano di Tecnologia (www.iit.it) IIT- European institute leader in robotics research, and thanks to the support and financing from Dompé Holdings.

20000+

Assessed and treated patients

160

Worldwide installation

3

Locations: ITA, GER, USA

20+

Publications



Movendo Technology

The development of clinical technology

Movendo Technology develops medical devices that use the most advanced technologies and are, at the same time, effective, simple to use, and easy to interact with. They are created in Italy with the taste for aesthetics, design and functionality that distinguishes our country.

Movendo Technology positions the patient at the center of the technological development, while helping the clinician to understand the actual rehabilitation needs. It is only thanks to the close collaboration and synergy with excellent clinical partners that we are able to combine ease of use with the immediate inclusion in the everyday clinical activity. The encounter between Movendo Technology and the clinical world has led to the creation of the first robotic aid for physiotherapy: **hunova**.



hunova

Robotic rehabilitation system

hunova is an intuitive and easy to use robotic aid for physiotherapists, dedicated to the rehabilitation in orthopedics, neurology and geriatrics.

"hunova is a device for the rehabilitation and functional sensory-motor evaluation of lower limbs and torso. In particular, it is designed for use in orthopedics, neurology and geriatrics."





Orthopedics

A Venn diagram with three overlapping circles. The top circle is blue and labeled 'Orthopedics'. The bottom-left circle is light blue and labeled 'Neurology'. The bottom-right circle is light blue and labeled 'Geriatrics'. The central intersection of all three circles is white and contains the 'hunova' logo, which consists of a stylized blue 'h' and the word 'hunova' in blue lowercase letters. The background of the entire image is a blurred photograph of medical professionals in white coats and blue scrubs, with one person wearing a black head-mounted display (HMD) with a blue 'h' logo on the side.

Neurology

Geriatrics

hunova

Orthopedic applications

In the orthopedic sector, **hunova** is used for the rehabilitation of **ankle, knee, hip** and **lumbar region** of the spine, making the patient carry out passive mobilization exercises, muscle strengthening, proprioceptive exercises and postural and balance control. The device is also used for sports rehabilitation.



Geriatric applications

In the geriatric field, **hunova** enables the physiotherapist to work on postural control, proprioception and balance, and it is used to prevent and evaluate the risk of falls in the elderly and the recovery of cognitive aspects.





Neurology

Orthopedics

Geriatrics

movendo
technology



Neurological applications

In the neurological area, **hunova** is used for post-stroke functional re-education, for the treatment of degenerative diseases of the central nervous system and lesions of the peripheral nervous system, providing exercises of postural control, balance, core stability and proprioception.



hunova integrates evaluation and rehabilitation in an homogeneous path to monitor improvements in real time during the therapy.

Rehabilitation path

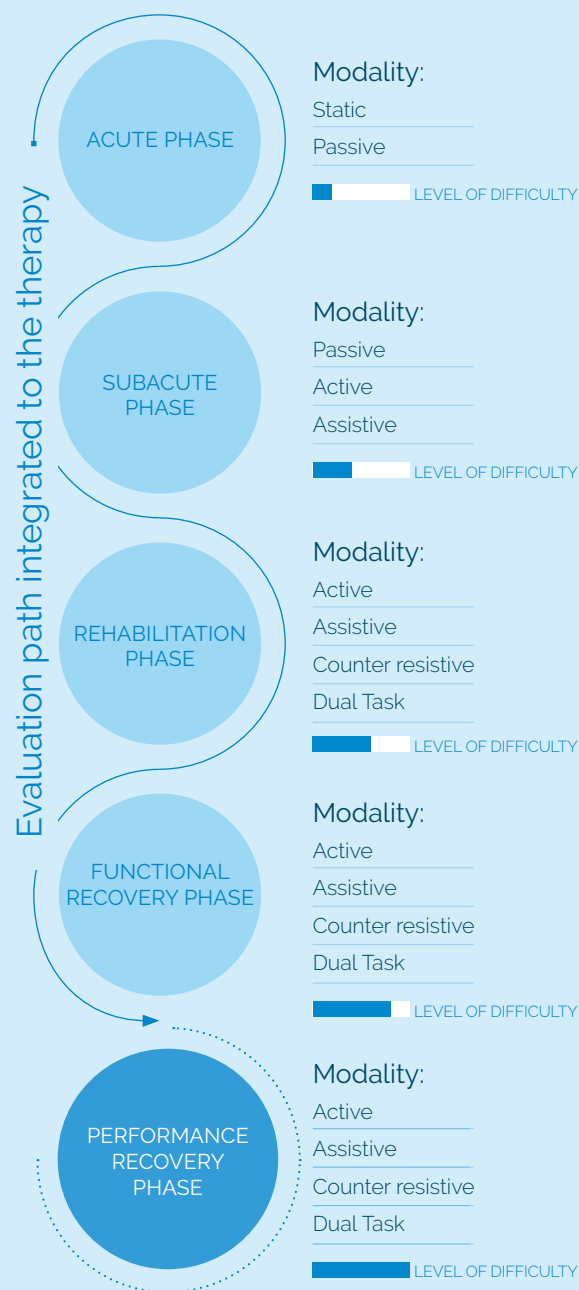
Protocols

hunova allows for:

- The use of standardized protocols developed from international guidelines, combining more than 200 exercises from various applications (orthopedics, geriatrics, neurology).
- The modification of standard protocols to be adapted to specific applications
- The creation of personalized protocols for the needs of each facility

Personalized rehabilitation

hunova enables the operator to select the difficulty level of the protocol in an accurate and simple way, in order to adapt the therapy to each patient's abilities.





Report

The **rehabilitation process** is integrated with an **evaluation path** to record and monitor the clinical situation of the patient, thus supplying objective reports throughout the therapy.

*"If you can't measure it,
you can't improve it"*

Peter Drucker





1. Adjustable touch screen

2. Tablet for remote control and operation of hunova

3. Emergency button

4. Wireless position sensor

5. Adjustable and removable armrests, removable backrest

6. Sensorized robotic seat

7. Sensorized robotic platform

8. 3D seat position adjustment

ⓘ Characteristics subject to change without notice.

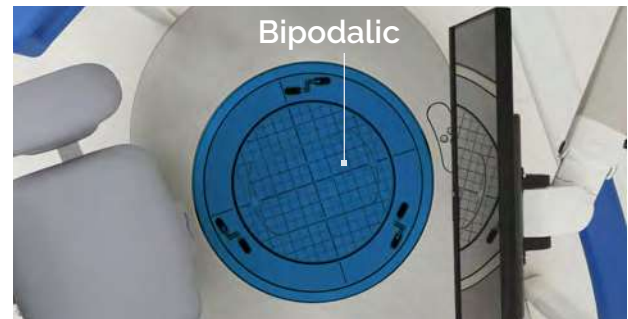


*"Measure what is measurable,
and make measurable what is
not so."*

Galileo Galilei



Scan the QR code to know
more about **hunova**

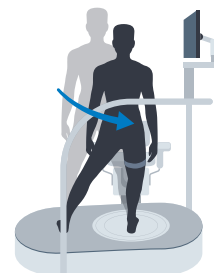
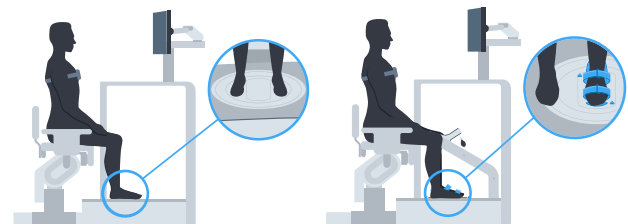


hunova configurations

The accessories allow the physiotherapist to isolate the individual body districts and to work with exercises of active, passive or assisted mobilization, strengthening and stretching. With **hunova** it is possible to perform exercises in the seated position, or in the standing position, in either mono - or bipodalic mode, with precise load control.

Monopodalic and bipodalic platform

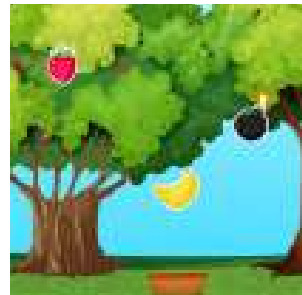
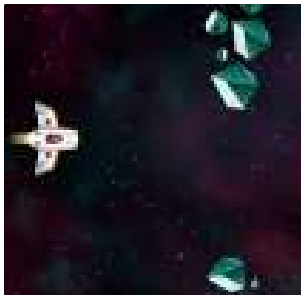
The monopodalic platform allows to reach a range of motion, suitable for the ankle articulation. The bipodalic platform allows for a wider working space, suitable for the double support which improves the postural attitude and encourages overall muscular recruitment.





Gaming

Within the rehabilitation process, depending on the exercise, the patient controls with the different parts of their body (ankle, knee, pelvis, trunk) the avatars generated on the screen, in different gaming modes and versions. This makes rehabilitation an entertaining activity which motivates and amuses the patient.





Biofeedback and dual task

The biofeedback, generated at visual, auditory and proprioceptive levels, allows the development of a voluntary motor response that highly improves the training process. By using gaming exercises, **hunova** encourages

patients to beat their previous goals and scores, accelerating their recovery and turning therapy into a playful activity.



What they say about us

"hunova represents an innovation and revolutionizes rehabilitation [...]. Finally physiotherapists can use an instrument [...] which makes rehabilitation more objective and measurable, thus allowing to personalize the intervention and make the rehabilitation more effective."

Dr. Mariuccia Rossini, Head of Korian Group, Italian division

"Time is precious! The first sensation I have had, which was then confirmed after using hunova, was the possibility to obtain maximum rehabilitation results in a very short period of time, thanks to the device's high compliance."

The robot versatility in regards to the patients allows to treat everybody from the professional athlete to the geriatric patient, all in an entertaining circumstance, very pleasing to the users. "

Dr. Giovanni Bei, Head of Rehabilitation of Korian Villa delle Terme

"It is an exceptional device that makes it possible to rehabilitate the patient also from a seated position. Another characteristic is the informatic precision which allows to set up an objective profile of the patient. It's an amazing integration between technology

and the doctor's clinical eye."

Dr. Giovanni Pietro Salvi, Head of Rehabilitation
Operational Unit of the Istituto Clinico Quarenghi

"An efficient ally of our rehabilitation équipe for a faster and complete achievement of the results set, but also a valid instrument for the evaluation of results and the rehabilitation of each patient, which can then be monitored by the medical and physiotherapy staff."

Dr. Angela Superchi, Chief Medical Officer of Casa di Cura Privata le Terrazze

"With MOVENDO's digital rehabilitation solutions that enable targeted assessment and successful therapy, we can help patients regain a better quality of life faster."

Giovanni Liverani, CEO Generali Germany

"hunova is an incredible device. The visual feedback it provides to patients is invaluable and the assessment reports are very useful for objectively measuring aspects of balance that we would never have been able to assess before."

Reg Grant Director Human Performance. Holy Name Medical Center, NJ Former Strength & Conditioning Coach NY Rangers

Istituto Italiano di
Tecnologia and
Movendo
Technology launch
Hunova, the first
rehabilitative robot

www.prnewswire.com



ENABLING PEOPLE
THROUGH TECHNOLOGY



www.movendo.technology

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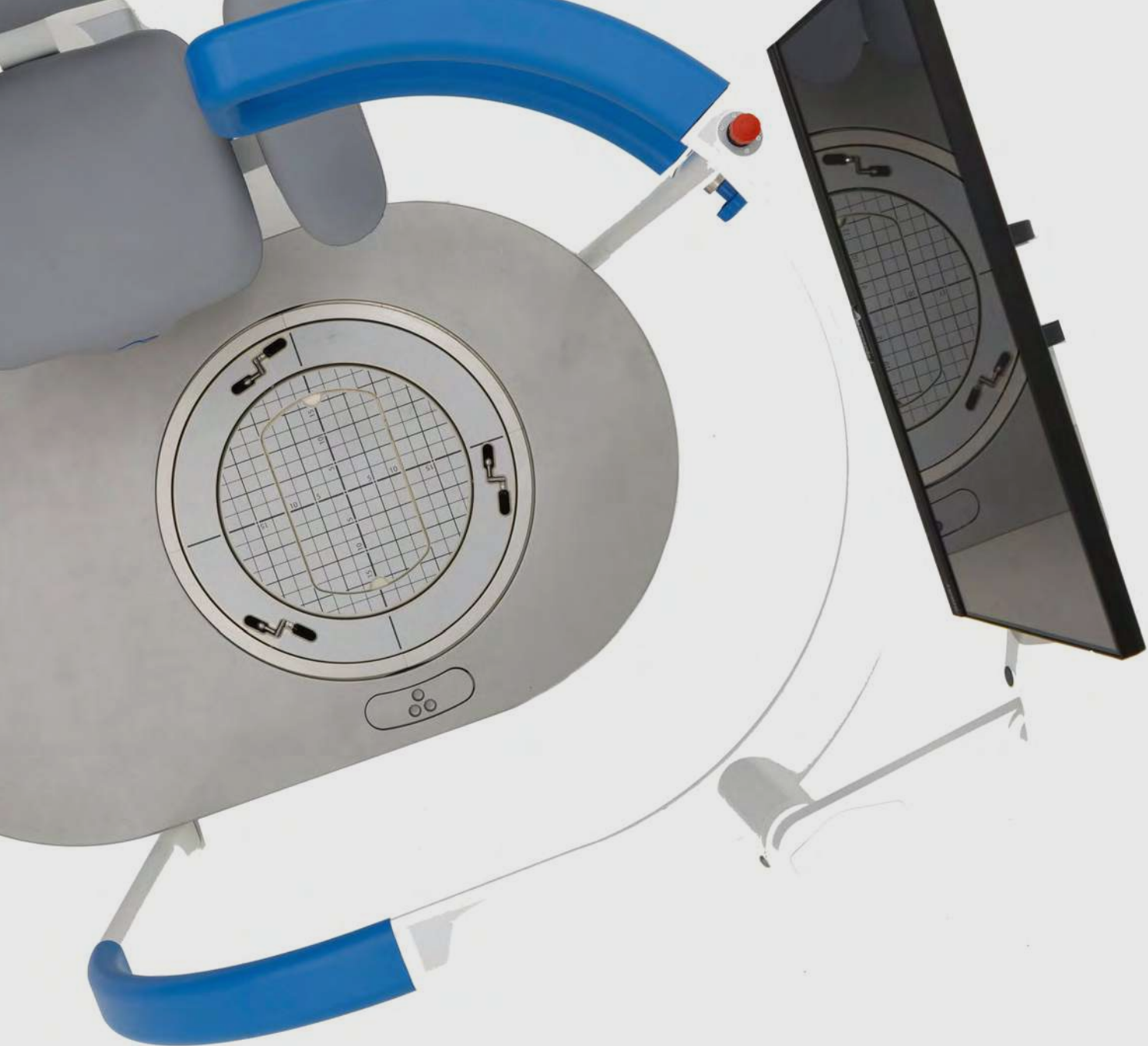
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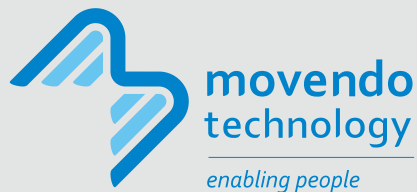




Join
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Scientific Network







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FDA listed



hunova
the new era in rehabilitation

ADI index

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