



Controlled elastic force

Vector



Vector

The device for the re-education of the lower limb in Closed Kinetic Chain.

Vector is an elastic load equipment designed to tone and train the muscles of the lower limbs in Closed Kinetic Chain.

This exercise modality entails muscle activation in co-contraction (of both agonist and antagonist muscles) and produces positive results for the stability of joints and proprioceptive stimulation.

The specific technological features of the device make it suitable for the simulation of specific technical movements practiced in sport.

Vector is effectively employed in muscle and joint traumatology, in post-surgical treatments and for the training of healthy patients.

Easy to use, Vector increases the patient's compliance and facilitates the self-management of the work session.

Characteristics



- Adjustment of the elastic work load
- Wooden footrest adjustable in distance and inclination
- Backrest with various possibility of inclination
- Adjustment and control of the range of motion
- Horizontal workload with no gravitational contribution
- Plyometric and ballistic exercises
- Stability, soundness and reliability
- Medical certification

Ways to exercise

During the use of Vector, the horizontal sliding track of the seat erases the patient's weight, making the load extremely modifiable. Thanks to the absence of inertia typical of the resistance to elastic force, exercises can be performed at low and high speeds, with and without stops.



Bipodal exercise of stretching and bending. Muscle activation is affected by the position of the foot.



Bipodal leaps. Vector's elastic load allows you to make leaps without risk of kickback and with variable foot position.



Monopodal exercise of stretching and bending. Muscle activation is affected by the position of the foot.



Alternating monopodal leaps. Vector's elastic load allows you to make leaps without risk of kickback and with variable foot position.



Bipodal exercise of stretching and bending. The position of the foot increases the work on the calf.



Alternating bipodal exercise of stretching and bending, preparatory to gaits. The position of the foot increases the work on the calf.

Technical features

Retail configuration

Vector instrument with wooden footrest
8 workload bands

Workload characteristic

Adjustable resistance with preselection of bands in use

Dimensions and weight

240 x 78 x 132h cm, 221 Kg
Required operating space: 310 x 120 cm

Operative modes

Reclining backrest
Footrest adjustable in distance and inclination
(choice of the working angle: -20, +15 degrees)
Pre-arranged feet in case of floor installation

Certification

Flextensor is a medical device compliant with European Union Regulation 2017/745

Exercises in a Closed Kinetic Chain in the absence of inertia and gravity.



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