



Isokinetic

# Genu Line



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Our product line specifically developed for the assessment and recovery of the knee joint.

Thanks to our devices, the movement is executed at a constant speed in which the resistance adjusts to oppose the force exerted by the user. The result is a maximal muscular contraction continuing for the entire duration of the exercise and extending to all degrees of joints.

In order to stimulate a better muscular stimulation, Genu Iso and Genu Plus also offer other exercise modalities in addition to the main isokinetic one:

- The isotonic and hydrodynamic modalities simulate respectively a constant and a viscous resistance.
- The isometric modality trains and measures the strength safely, while the passive modality is especially suitable for early rehabilitation phases.

Additionally, Genu Line devices are particularly effective for joint traumatology treatments, postoperative care and for the training of healthy individuals.

Finally, Genu Iso and Genu Plus are also particularly suited for injury prediction and post-rehabilitative control tests.

The ease of use and the focus on the knee joint make the devices a flexible tool both in sport and rehabilitation.



## Genu Iso

Passive isokinetic dynamometer.  
Concentric and isometric modalities.



- Isokinetic dynamometer with hydraulic brake
- Contraction modes: isokinetic, isometric, isotonic and hydrodynamic
- Isokinetic concentric exercise-isometric mode
- Adjustable angular velocity range from 40°/sec to 400°/sec
- Isometric positioning by 15° intervals
- Assessment of the torque with 1.5 Nm resolution
- Maximum concentric force 600 nm +/-5%
- Real time measurement of muscle forces and joint angles with feedback
- Data collecting and comparative reports
- Graphic analysis of the curves
- Medical device

## Genu Plus

Active and passive isokinetic dynamometer.  
Concentric, eccentric, mixed and isometric modalities.



- Isokinetic dynamometer with hydraulic brake
- Contraction modes: isokinetic, isometric, isotonic and hydrodynamic
- Isokinetic concentric, eccentric and mixed exercises – passive and isometric mode
- Angular velocity range in concentric mode from 40° /sec to 400°/sec
- Angular velocity range in eccentric mode from 20°/sec to 200° /sec
- Passive speed from 5° to 20° /sec
- Isometric positioning by 15° intervals
- Assessment of the torque with 1.5 nm resolution
- Maximum concentric force 600 Nm +/- 5%
- Maximum eccentric force 600 Nm +/- 5%
- Real time measurement of muscle forces and joint angles with feedback
- Data collecting and comparative reports
- Graphic analysis of the curves

# Technical features

## Operating configuration

Isokinetic unit with seat  
Knee lever

## Options

Anti shear lever

## Dimension and weight

Genu Iso:  
Isokinetic unit 110 x 121 x 134h cm, 160 kg  
Genu Plus:  
Isokinetic unit 110 x 144 x 134h cm, 205 kg  
Min. required operating space: 200 x 270 cm

## Electrical features

Power: 100-230 Vac, 50/60 Hz monophasic  
Maximum absorbed power: Genu Iso 110 VA,  
Genu Plus 550 VA  
Genu Iso fuses 2F 2 A, Genu Plus fuse 2F 6,3 A

## Installation requirements

Room temperature: [+10; +40] °C  
Relative humidity (without moisture): [0; +75] %  
Atmospheric pressure: [700; 1060] mbar  
Maximum patient weight: 135 kg

## Minimum PC requirements

Operating system Windows 7  
Graphic card 1024 x 768 – 24 bit  
Ram 4GB  
USB port

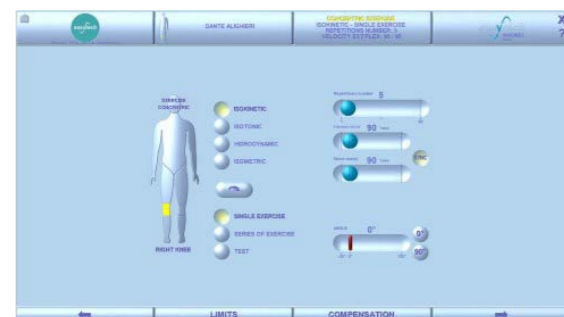
## Classification

Genu Iso: Medical device class I  
Genu Plus: Medical device class II b

## Certification

Genu Iso and Genu Plus are medical devices  
compliant with European Union Regulation  
2017/745

Touchscreen  
software, easy  
settings and guided  
sequences



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CERTIFIED QUALITY  
SYSTEM ISO 13485

Rehabilitation  
Technology.