



Isokinetic

# Linea Prima



# Prima Line

Our product line, specifically developed for the assessment and recovery of large joints.

The isokinetic exercise, performed at constant speed by accommodating resistance.

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.

Prima Iso and Prima Plus are designed for the training of the large joints: knee, shoulder and ankle.

For each large joint Prima allows:

- The assessment and recovery of joint strength and range
- The monitoring and restoration of dynamic muscle performance
- The accurate and repeatable identification of a painful or hypovalid joint arch for the customization of workloads
- Shorter recovery times

Prima Line devices also find useful applications in muscle and joint traumatology, postoperative care and in the athletic training of the healthy subject.

## Prima 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 (30° for the shoulder)
- 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

## Prima 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 (30° for the shoulder)
- 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
- Medical device

# Technical features

## Operating configuration

Isokinetic unit with seat

Knee lever

Ankle lever

CKC lever

Shoulder lever

Lever cart

## Options

Bipedalic lever

## Size and weight

Prima Iso:

Isokinetic unit 70x140x135h cm, 162 kg

Prima Plus:

Isokinetic unit 70x140x135h cm, 194 kg

Levers trolley:

46x46x42h cm, 38 kg

Min. required operating space: 200x270 cm

## Electrical features

Power: 100-230 Vac, 50/60 Hz monophas

Maximum absorbed power: Prima Iso 110 VA,

Prima Plus 550 VA

Prima Iso fuses 2F 2 A, Prima 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

Graphic card 1024x768 - 24 bit

Ram 4GB

USB port

## Classification

Prima Iso: Medical device class I

Prima Plus: Medical device class II b

## Certification

Prima Iso and Prima Plus are medical devices

compliant with European Union Regulation

2017/745



Knee lever



Ankle lever



CKC lever



Shoulder lever



# Easytech s.r.l.

info@easytechitalia.com  
easytechitalia.com

Via della Fangosa, 32  
50032 Borgo San Lorenzo, Firenze  
T +39.055.8455216

CERTIFIED QUALITY  
SYSTEM ISO 13485

Rehabilitation  
Technology.