

"The Clinical Advantage"™

BioStep™ 2

Semi-Recumbent Elliptical



Naturally smooth... Positively effective !

Combine the benefits of smooth, elliptical, cross-training exercise with the comfort, safety and stability of semi-recumbent positioning.

Zero-joint impact plus biomechanically correct arm, leg and ankle motion emulates natural walking patterns.

BioStep 2...the obvious choice for cross training.

www.biodex.com/biostep



The **BioStep 2** ...constant resistance with simplified display and operation

BIODEX

www.biodex.com
1-800-224-6339

Int'l 631-924-9000

FEATURES:

- **Elliptical motion** – provides smooth continuous “zero-joint impact” exercise
- **Self powered, self charging** – cordless capability; use it anywhere
- **1:1 arm to leg motion** – for natural arm swing rhythm
- **Pivoting handgrips** – provide comfort for patients with forearm or wrist impingements
- **Rotating seat** – to 90° on either side and step-through design - for easy and safe entry and exit
- **NEW Movable armrests** – for added comfort and stability when needed
- **NEW Seat belt** – offers support and security for patients with limited torso control
- **Optimized seat height** – for wheelchair transfers and controlled hip flexion
- **Up to 600 watts** – to accommodate a wide spectrum of users
- **Constant resistance** – 20 effort levels provide greater program options
- **Heart rate monitoring** – Polar® contact handgrips (telemetry compatible) to ensure proper training intensity
- **Sturdy** – well-placed grab handles to facilitate patient transfer
- **Large, easy-to-use “Quick Start” display** – features time, rpm, watts, calories, METs, distance, total steps, heart rate
- **Large utility holder** – provides a convenient storage place for water bottles and allows for hands-free reading
- **Robust design** – for heavy institutional use
- **Stabilization Kit** – optional

Naturally smooth... positively effective

With its feature-rich design, the versatile and durable Biodex BioStep 2 can accommodate a wide variety of user profiles including orthopedic, neurorehabilitation, cardiopulmonary, sports medicine, wellness and general strengthening and conditioning programs for any age group. BioStep 2 is simple to use, requires minimal supervision and allows exercise to progress at a natural pace.



The BioStep 2 Semi-Recumbent Elliptical is naturally smooth and continuous, offering exceptional comfort. Its low-impact, elliptical motion reduces the jarring start/stop direction change often associated with other recumbent steppers, eliminating the need for users to lift or strike their feet on the footplate. The step-through frame, easy-to-use display, and comfortable robust design, make the BioStep 2 the obvious choice for cross training.

Helps patients and their therapists achieve multiple rehabilitation objectives

The fluid, elliptical motion is forgiving on the knees, ankles, hips and lower back... a natural closed-chain, low-impact, functional exercise. The BioStep 2 reduces joint impact because the user is not required to lift and strike their feet on the walking surface. By combining lower extremity motion with upper body exercise, the BioStep 2 provides a total body workout in both forward and reverse directions, thereby involving different muscle groups.

Ideal for older adults or preambulation

The low-impact elliptical motion of the BioStep 2 reduces the jarring impact often associated with the stop-start motion so common with other recumbent steppers. The motion of the BioStep 2 also helps strengthen the muscles important to maintaining function; those muscles specifically associated with mobility, gait and balance.

Great for cardiac rehabilitation



BioStep 2 incorporates both the upper and lower extremities into the cycling motion; patients experience less local muscle fatigue. This allows similar heart rates to be achieved at lower rates of perceived exertion when compared to traditional exercise ergometers. Blood pressures can be checked while the patient continues to exercise by simply releasing one arm while the other three extremities comfortably continue to perform the exercise.

BioStep 2 is ideal for patients who may experience leg claudication during exercise. Patients can easily reduce the effort in the involved leg, while keeping heart rate elevated, by transferring a greater portion of the workload to the non-involved extremities. When the cramping subsides, exercise can be transferred back, proportionately, to all four extremities.

Wellness and aerobic conditioning

BioStep 2 provides a zero impact, safe and comfortable total body workout in both forward and reverse directions, making it ideal for general aerobic conditioning of your adult population.

Stabilization Accessories for Neurological and Musculoskeletal Challenges

Biodex offers stabilization accessories to meet the challenges of patients with neurological and musculoskeletal issues. Pivoting hand grips and articulating footplates add to the comfort while strengthening the primary muscles associated with balance, gait and mobility.

If there is one piece of equipment for all your patients...this is it.

APPLICATIONS

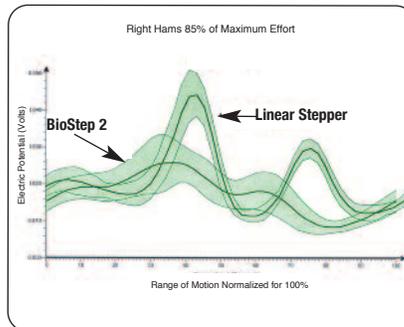
Senior Rehab
Wellness and Fitness Centers
Neurorehabilitation
Cardiac Rehabilitation
Orthopedic/Sports
Medicine, and more



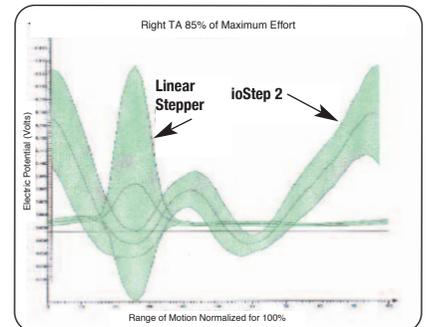
* Included in **Stabilization Kit**
Hand and foot straps included, not shown



Easy to use with QUICK START display features time, rpm, watts, calories, METs, heart rate, distance and total steps.



In addition to the zero impact motion, another reason the BioStep 2 feels "oh so good" on the knees is due to evenly sustained hamstring contraction throughout the range of motion. The hamstrings are important knee joint stabilizers.



The BioStep 2 motion and articulating footplates provides significantly more Tibialis Anterior activity throughout all of the range of motion. The Tibialis Anterior is the prime mover for the Dorsiflexion needed to raise the foot during walking. An impaired Tibialis Anterior contributes to foot drop.

What they are saying...

"I recently completed Cardiac Rehab at Lifebridge in Pikesville, MD. I found that the BioStep machine was the best machine for my needs among all the machines available."

In addition to having a stent put into the main artery in my heart in February, I suffer from diabetic neuropathy in my feet. Because of this, I am on many medications which have caused me to gain over 100 lbs. in the five years since my diagnosis. It is very difficult for me to use a treadmill and I definitely can't use a bicycle where my feet are hanging. The only two machines I am able to use are a recumbent bike and the BioStep.

I really love the BioStep because it enables me to exercise both my upper and lower body. Also, the pushing movement of the foot pedals is easier than cycling. I am able to complete 30 minutes and more on the BioStep, while 10-15 minutes on the recumbent bike is difficult."

*Suzie Bowles, Patient
Westminster, MD*



"Thanks to the Biodex BioStep 2, I shot my age in golf today."

"I have the Biodex BioStep 2 Semi-Recumbent Elliptical and I just love it! I use it five days every week, and the difference it has made has been nothing short of

amazing. I had a left hip replacement two years ago, and today I shot my age in golf...76. I credit the BioStep 2 for the conditioning, especially the added strength in my arms and shoulders, as well as my legs...truly outstanding equipment."

*William L. Massey, Patient
Albertville, AL*

Facility Develops "Vivid Living", an Innovative Mobility-Recovery Program that Helps Seniors Walk Again



Upon admission to the Vivid Living program, Viola was almost completely confined to a wheelchair. After six weeks in the program, utilizing the Biodex BioStep and other Biodex mobility-rehabilitation systems, she reduced her wheelchair use to only 10% of the day.

Read the full study
www.biodex.com/casestudy/vividliving

COMPLIMENTARY PUBLICATIONS

NEW Clinical Guideline Parkinson's Disease

A Clinical Guideline for the Treatment of Patients with Parkinson's Disease using Biodex Technology.



Download the Clinical Guideline
www.biodex.com/guideline/pd210

Clinical Guideline Peripheral Neuropathy

A Clinical Guideline for the Treatment of Patients with Peripheral Neuropathy using Biodex Balance System SD, BioStep, Gait Trainer and Unweighing System.



Download the Clinical Guideline
www.biodex.com/guideline/pn298

SPECIFICATIONS:

- Dimensions: 54" l x 28" w x 44" h (137 x 71 x 112 cm)
- Resistance: Constant resistance with 20 effort levels
- Work Rate Range: Up to 600 watts (120 rpm)
- Heart Rate Monitoring: Polar® contact handgrip (telemetry compatible)
- Readouts: Time, rpm, watts, calories, METs, heart rate, distance and total steps
- User Capacity: 500 lb (227 kg)
- Weight: 202.5 lb (92 kg)
- Power: Self-powered; no external power requirement at user work rates over 30 watts and 50 rpm; adapter is provided to power system and charge battery during applications below 30 watts and 50 rpm; battery automatically recharges at work rates above 30 watts and 50 rpm. AC Adapter included.
- Certifications: ETL listed to UL60601-1 and CAN/CSA C22.2 No.601.1.M90, EN 60601-1: 2nd Edition. EMC compliance to EN 60601-1-2.
- Warranty: Two years parts; one year labor



Study validates BioStep as an exercise device that older adults will find very tolerable.

In the study by Mendelsohn, Connelly, Overend and Petrella, published in the Journal of Aging and Physical Activity, April 2007, the BioStep was shown to be a valid and reliable aerobic exercise device. If you are looking for an effective device for exercise testing and training in an older population... look no further. PubMed ID #17556784

Read full study:
www.biodex.com/research/bs097

950-240 BioStep™ 2,
100-240 VAC
Includes: foot straps,
hand straps, seat belt
and movable armrests
Export models available.

Optional
950-242 Stabilization Kit
Includes: pivoting calf support,
padded foot restraint
and hand/wrist cuffs (large).
950-247 Hand/Wrist Cuffs,
Small (pair)
950-243 Hand/Wrist Cuffs,
Medium (pair)
950-234 Hand/Wrist Cuffs,
Large (pair)

BIODEX

Stabilization Accessories

Customize to your patient's needs

Patients with neurological and musculoskeletal issues commonly present with decreased strength, proprioception and kinesthetic awareness deficiencies or edema. These and other factors add to the challenges of maintaining the upper or lower extremity properly and comfortably on the device during exercise.

BioStep™ 2 is supported by a collection of stabilization accessories to allow patients with these challenges to enjoy the benefits of exercise.



Accessories Included



Foot Straps

A hook and loop strap that provides a simple solution to secure a user's foot to the footplate during exercise.



Seat Belt

The Seat Belt offers support and security for patients with limited torso control. The Seat Belt fits securely around the lower abdomen of each user and is completely adjustable. The retractable seat belt is there when needed and out of the way when not.



Hand Straps

Like the Foot Strap, a hook and loop strap provides a simple solution to secure a user's hand to the Pivoting Handgrips, enabling controlled motion during exercise.



Movable Armrests

With the addition of the movable padded armrests, users obtain an added level of comfort and stability when needed. The BioStep 2 can be used with or without the armrests in position. Armrest folds flush against the side of seat back to provide easy-on and off access.

Optional Stabilization Kit Includes



Padded Foot Restraint & Pivoting Calf Support

For lower extremity stabilization we offer a padded foot restraint and pivoting calf support. This combination provides support to the calf while allowing the patient to exercise and experience the smooth BioStep motion. The calf support pivots, allowing the ankle to move as it would naturally in gait. The padded foot restraint is a convenient and comfortable means to secure the foot to the footplate, thereby maintaining correct loading of the joints and postural alignment during exercise.



Hand/Wrist Cuffs

Patients with hand and wrist limitations will find comfort with the pivoting handgrips and security of maintaining stable hand position throughout the exercise session. The Hand/Wrist Cuffs allow users with limited or no hand strength or control to enjoy the benefits of the BioStep's upper body exercise.

NOTE: Hand/Wrist Cuffs are also sold separately.



BioStep™ 2 ...the difference is still in the motion.

www.biodex.com/biostep

BIODEX

Biodex Medical Systems, Inc.

20 Ramsey Road, Shirley, New York, 11967-4704, Tel: 800-224-6339 (Int'l 631-924-9000), Fax: 631-924-9538, Email: info@biodex.com, www.biodex.com

