

# S4

## INTRODUCING THE **NEW** BIODEX SYSTEM 4

Still the fastest way to identify, treat and document  
the physical impairments that cause functional limitations.



**DISTINGUISH YOURSELF**

S4... the only choice for the people who know the difference.

*Get the full story at [www.biodex.com/S4](http://www.biodex.com/S4)*

# BIODEX

[www.biodex.com](http://www.biodex.com)

**1-800-224-6339**

Int'l 631-924-9000

# Distinguish Yourself...



*S4 offers virtually unlimited functional patterns to help you treat and document a wider patient*

# Biodex S4

The most popular and advanced dynamometer in the world  
just got better and easier to use.



Over 25 years have passed since Biodex introduced the world's first multi-mode computerized robotic dynamometer.

That event and subsequent "firsts" have made the Biodex dynamometer the choice of the most distinguished clinics and research facilities around the world.

Sports and orthopedic medicine, pediatric medicine, neurorehabilitation, older adult medicine, industrial medicine, and researchers depend on Biodex to provide consistent, accurate objective data. Objective data that provides the best outcome for their patients... objective data that supports their research... objective data that separates their facility from the rest.

Our 200 employees strive to keep Biodex at the forefront of innovation, effectiveness, efficiency and reliability. That's why so many world class facilities depend on Biodex.

## The **New** System 4

- New advanced dynamometer technology for greater performance
- **Redesigned** seat accommodates athlete to pediatric applications
- New software interface, no other system is faster or easier to use
- New software features include:
  - End by % of fatigue - in Biofeedback, an exercise bout can be completed when the work for a repetition has dropped below a threshold (such as percentage of work)
  - **Rehabilitation Progress Report** that plots strength, pain, ROM and other defined measurements  
...and much more
- New touch-screen... see it, select it, adjust it... - it's that simple
- New simplified patient positioning with on-screen audio and visual aids
- **Reduced** floor space
- **Improved** Work Simulation exercises
- **Wider Range of Normative Data** athlete to pediatric
- **Expanded** after-sale support, installation and continuing education programs

*S4... the only choice for those who know the difference*



*t base than any other system.*

*...pioneering breakthroughs in neuromuscular testing and rehabilitation technologies.*

### Combine the art and science of rehabilitation

The Biodex System 4 continues to offer pioneering breakthroughs in neuromuscular testing and rehabilitation technology. Biodex assessments of physical impairments provide patients a fast, effective, documented return to function. The Biodex System 4 is unusually sensitive to your patient's limits. Progressive and interactive features keep you in complete control. Dynamic and static muscle loading environments provide unlimited combinations of technique and application.

### Isokinetic Resistance Mode

- The Isokinetic Resistance mode for testing and rehabilitation is totally accommodating throughout the entire range of motion. Biodex's unique impact-free acceleration and deceleration eliminates joint trauma, allowing patients to exercise and be tested at more functional speeds. Resistance continuously matches effort, accommodating to variations in patient force output due to weakness, pain or fatigue at specific points in the individual's range of motion.
- Research, along with over 25 years of clinical application, has demonstrated that isokinetic resistance is a safe, objective means to quantify physical impairments with a high correlation to function. Isokinetic testing is the standard for muscle and joint assessment.
- Applied torque response ensures that the patient's limb velocity increases or decreases in proportion to the torque applied during acceleration and deceleration, enabling neuromuscular control measurements.
- Choose concentric and eccentric contractions to perform isolated plyometric exercises.

- Concentric torque up to 500 ft-lb (680 Nm) and eccentric torque up to 400 ft-lb (542 Nm) accommodates the demands of high performance athletes and sports medicine researchers.

### Reactive Eccentric Mode

- The Reactive Eccentric mode for submaximal neuromuscular re-education in the early phases of rehabilitation
- The System 4 responds only to the patient's force output. To initiate movement, the patient must produce and maintain a pre-determined minimum amount of force. This loads the muscles surrounding the joint, producing a pre-load, thus stabilizing and protecting the joint.
- Eccentric torque up to 400 ft-lb (542 Nm)

### Passive Motion Mode

- The Passive Motion mode is a multi-function modality. Unique control properties allow for early intervention in all patients throughout all phases of rehabilitation.
- Passive speeds can be set as low as .25 degrees per second and as fast as 300 degrees per second.
- **Proprioception** -Very slow speeds allow for overcoming the natural stretch reflex. Ideal for proprioceptive testing. Active joint position testing stimulates joint and muscle receptors and provides a functional assessment of afferent pathways. System 4 software includes specific protocols for active and passive joint repositioning.

## SIX PHASES OF REHABILITATION

### 1. Healing Constraints and Proving Need

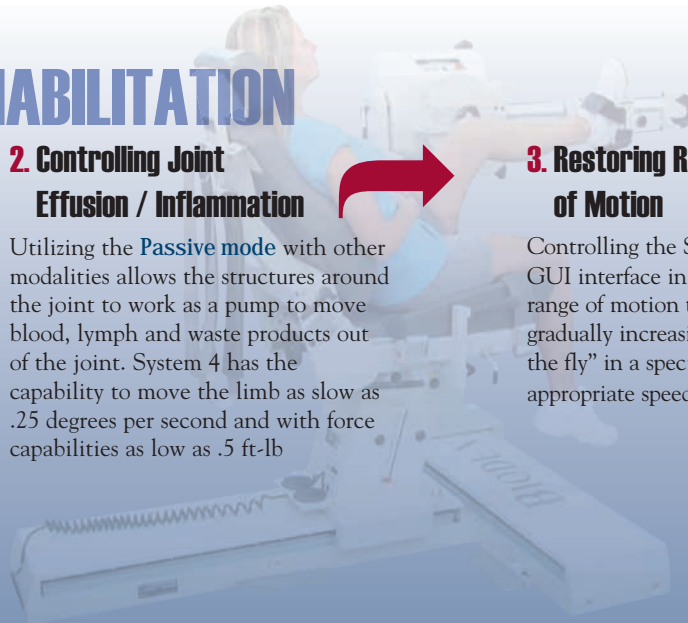
In **Passive Mode**, gentle range of motion exercise can facilitate the healing process and restore normal range of motion necessary for function. **Isometric mode** allows safe, comfortable strengthening and testing at specified angles that are safe for both your pre-operative and post-operative patients.

### 2. Controlling Joint Effusion / Inflammation

Utilizing the **Passive mode** with other modalities allows the structures around the joint to work as a pump to move blood, lymph and waste products out of the joint. System 4 has the capability to move the limb as slow as .25 degrees per second and with force capabilities as low as .5 ft-lb

### 3. Restoring Range of Motion

Controlling the System 4 through the GUI interface in **Passive Mode** allows range of motion to be restored by gradually increasing range of motion "on the fly" in a specified direction, at appropriate speeds and safe torque levels.



# Advanced Technology

Based on accepted science, backed by independent studies, supported by clinical protocols and normative data

- Torque limits can be set as low as .5 ft-lb (.7 Nm). If a torque limit is exceeded during an eccentric contraction, the System stops. Once the patient's torque output drops below the prescribed limit, movement is allowed. This unique capability allows patients to work safely at definitively prescribed sub-maximal force levels while combining isometric, concentric and eccentric contractions for:
  - developing strength
  - decreasing joint effusion
  - increasing range of motion
- Higher speeds in passive mode are ideal for active assistive exercise.

## Isometric mode

- The Isometric mode is commonly used pre- and post-operatively or when pain associated with motion is a factor. Isometric contractions effectively develop strength and decrease joint effusion while avoiding painful points in the range of motion.
- Biodex software automates the rehab process with automated multiple angle isometric protocols. Work the agonist, antagonist or both muscles at specified joint angles.

## Isotonic Mode

- The Isotonic mode allows velocity to vary while providing inertia-free constant force and concentric or eccentric muscular contractions.
- Higher performance:
  - Isotonic force to as low as .5 ft-lb (.7 Nm) = 6 inch pound; and as high as 400 ft-lb (542 Nm)

- Allows for functional task simulation when using work simulation tools, e.g., turning a doorknob.
- Because the force is selected, the Isotonic mode also provides protective pre-loading of the joint prior to movement.
- Ideal for work simulation. Constant force muscle loading is considered functional, as natural activities normally involve moving a constant weight object at varying velocities.

Enjoy complete freedom in planning the mode and level of clinician interaction that works best for each patient. Touch screen controls give clinicians the hands-on ability to adjust torque, speed, range of motion and other clinical parameters in real time. The Biodex System 4 also allows clinicians the option to select automated test and exercise sessions. Any sequence of modes can be employed automatically by linking protocols.

## Customized Motor Control

- The optional **Researcher's Tool kit Software** allows researchers to customize motor control, movement tracking and data analysis.

## Demonstrated Accuracy, Reliability, Safety and Durability.

- Biodex dynamometers offer a level of performance, accuracy and safety that remains unmatched. Every step of the rehabilitation cycle yields consistent and repeatable results. Biodex dynamometers mark the highest correlation coefficients for performance repeatability, another reason so many clinicians and researchers put their trust in Biodex.

### 4. Restoring Strength and Proving Progress

Isometric, active assistive, sub maximal concentric and submaximal eccentric contractions are early strengthening techniques that are available to the System 4 user. More progressive maximal concentric, eccentric contractions are available in **Isokinetic, Isotonic, Passive and Reactive Eccentric modes**. All of these modes are also suitable for testing and delineating a documentable progression of muscular strength, endurance and joint position sense.



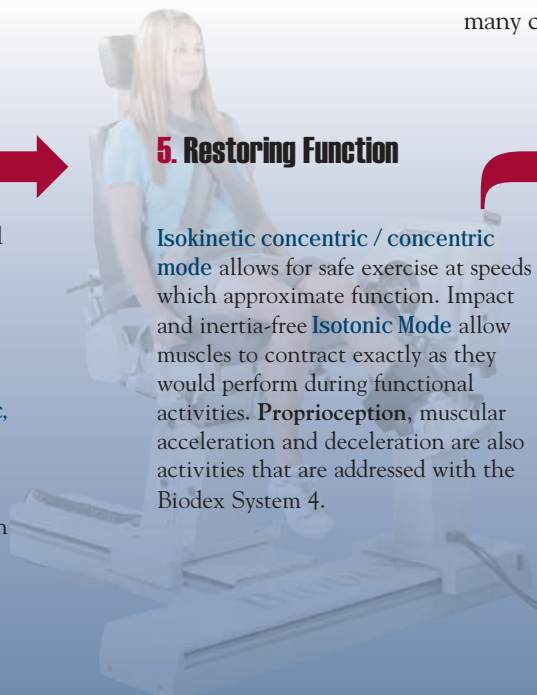
### 5. Restoring Function

**Isokinetic concentric / concentric mode** allows for safe exercise at speeds which approximate function. Impact and inertia-free **Isotonic Mode** allow muscles to contract exactly as they would perform during functional activities. **Proprioception**, muscular acceleration and deceleration are also activities that are addressed with the Biodex System 4.



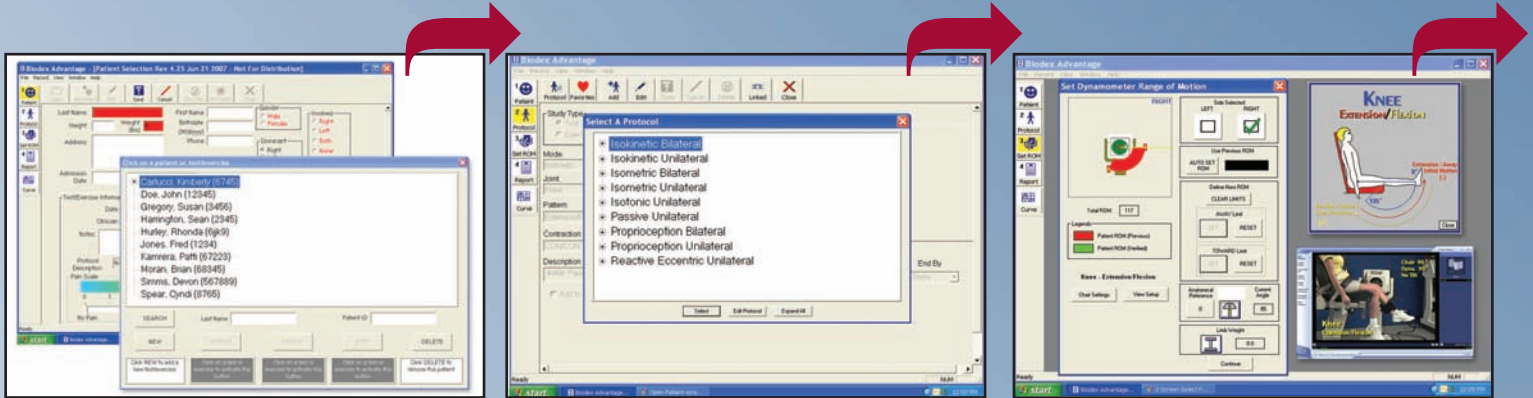
### 6. Proving Outcome

**All five modes** can objectively assess isolated joint muscular strength and neuromuscular control.



# Advantage Software™ ...

...communicate need, progress and outcome clearly and accurately.



**#1:** Find or add a patient.

**#2:** Select or create a test or rehabilitation protocol.

**#3:** Set the Range of Motion - need help?  
Simply refer to the on-demand audio and visual aids.

## INTRODUCING ADVANTAGE SOFTWARE 4.0

Advantage Software™ 4.0 is the most comprehensive, easy-to-use, feature-rich software that has ever been released for human performance testing and rehabilitation. Software that is intelligent and intuitive; software that mirrors the way you think and work.

Advantage Software™ helps motivate patients with on-screen charts and graphics that track performance and encourage compliance with the rehabilitation plan. Powerful curve analysis allows you to conduct even more complex neuromuscular evaluations. With Advantage Software™ you can be confident that every step of the rehabilitation plan is captured and documented.

## COMMUNICATE NEED, PROGRESS AND OUTCOME

Biodex objective data helps you communicate need, progress and outcome clearly and accurately. Graphic reports and narrative letters compare patient status to normative data. On-screen editing helps communicate the information in simple terms for patients, referring physicians and third-party payers.

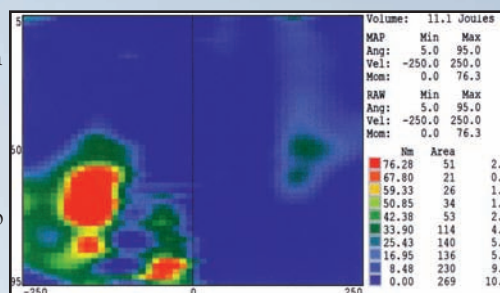
## FAST AND EASY TO USE

What's the best piece of equipment? The one that's used the most. System 4 makes a point of being easy to use for all skill levels, bringing the clinical advantages of this technology to every application. The new system interface makes the System 4 easier than ever to use. Now moving from treatment to analysis and report generation is just a click away.

- New Touch Screen for quick, easy operation. **See it, select it, adjust it. It's that simple.**
- Easy-to-follow on-screen wizards guide the inexperienced user through the software while the Windows®-based application remains flexible for the advanced user.
- Innovative, on-demand audio and visual aids demonstrate exercise and test patterns – so there is no forgetting how to set up!
- Only Advantage Software 4.0 features the new, easy to understand, **Rehabilitation Progress Report**. This on-screen chart and printable report tracks Pain, Range-of-Motion and Strength throughout the rehabilitation protocol.

## ISOMAP

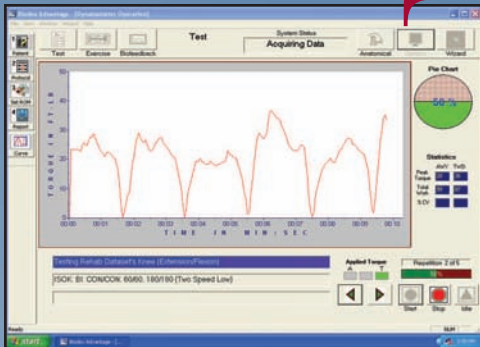
- The Biodex system's ability to collect the entire spectrum of the patient's neuromuscular performance means that more advanced clinical users can take advantage of the optional **Isomap** feature. Isomap is a graphical depiction and quantitative analysis of strength that includes all measures of force, velocity and range of motion. The map allows the clinician to easily examine regional impairments of neuromuscular performance. The information in turn is used to design a rehabilitation treatment specific to the impairment.



**DIFFERENCE MAP** Involved quadricep shows significant eccentric deficiencies (red areas) beginning at 60° ROM to 80°ROM (flexion) and between 120°/sec. and 200°/sec.

# Simple, Logical, Intuitive

No other system is faster or easier to use



#4: Test or rehabilitate the patient.

YOUR LETTERHEAD

January 10, 2008

Dr. Jones  
123 Hospital Road  
Biotek City, UT 5573

Dear Dr. Jones,

As requested, please find a Biotek isokinetic evaluation for Joe Smith. The test was administered on 1/5/2008. The uninvolved knee was tested first followed by the involved knee.

The results of the test reveal significant strength deficits in the involved knee as compared to the uninvolved knee.

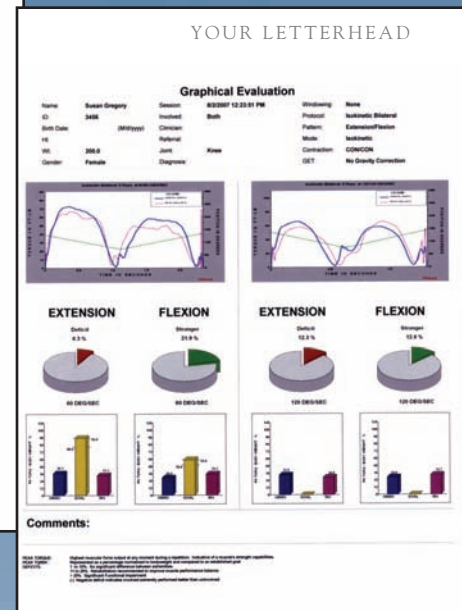
The involved knee exhibited work capabilities below the work capabilities of the uninvolved knee.

Range of motion for the involved knee was below normal limits.

Reference the coefficient of variance: the reliability of the patient's test performance was acceptable.

It is my opinion that the patient is making excellent progress and should continue therapy for 4 weeks.

Sincerely,  
John Doe PT



#5: Print Reports.

## Rehabilitation Progress Report

This report presents important measures of patient performance over a time period in a simple, easy to understand format. System 4 is the cornerstone of an **evidence based rehabilitation** program; strength, range of motion, pain and up to four other parameters, not necessarily from the System 4, can be entered to present status and progress. For example you can enter and track balance results, joint laxity measurements and/or gait results along with strength and range of motion measures.

The **Rehabilitation Progress Report** is stored for easy reference and can be printed for availability to referring physicians and third party payers.

New Touch Screen graphic user interface for quick, easy operation.

New software makes the system more responsive, easier to use and faster to setup.



## EVIDENCE-BASED CLINICAL PROTOCOLS

Biodex combines science with practical application to present a series of ***Evidence-based Clinical Protocols*** to help you better understand and utilize your Biodex System.

## SPORTS AND ORTHOPEDIC MEDICINE



Whether your orthopedic and Sports Medicine practice is allowed only limited visits or you have the luxury of managing a complete recovery, Biodex is the tool that adapts to every

environment. Evidence-based clinical protocols combine science with practical application to ensure that you provide the best outcomes.

- Shoulder Dysfunction
- Knee Osteoarthritis
- Lateral Ankle Sprains
- Patellofemoral Dysfunction
- Anterior Cruciate Ligament

Other capabilities include pre-season screening, injury prevention and athletic performance enhancement.

*Note: Additional Biodex based sports medicine protocols are available at [www.cincinnati-sportsmed.com](http://www.cincinnati-sportsmed.com)*

## PEDIATRIC MEDICINE



The Biodex Multi-Joint System has been used to test and treat children worldwide. Isokinetic muscle testing helps clinicians by providing objective data for neuromuscular control and strength. Pediatric attachments and age-based normative data are available.

*Note: Pediatric Normative Data is available at [www.biodex.com/S4](http://www.biodex.com/S4)*

## NEUROREHABILITATION



The Biodex program for neurorehabilitation helps patients build strength, endurance and coordination. Spasticity management includes objective quantification at specific contraction velocities. The passive mode is used for repetitive exercise. The eccentric mode is especially useful for controlled strengthening.

*Note: The evidence-based clinical protocol for movement disorder is available for a multitude of pathologies. Visit [www.biodex.com/S4](http://www.biodex.com/S4)*

## WHAT WE HEAR FROM OUR USERS:

### From **Hospitals** we hear...

We just traded in our old Biodex System that served us well. We see a lot of shoulders, knees and total hips. The Biodex gives us a standardized rehab intervention. The new unit is much easier to setup and use; the staff loves it. Importantly, we were able to move our old database from the previous system into the new System 4.

### From **Universities** we hear...

In our university, we have a PT program, a ATC program, an Ex Phys program, and a new researcher with a grant - we chose the Biodex (S4) because we needed a safe "rock solid" purchase... our programs, research and reputation depended on it. Nothing else has come along to replace the objective neuromuscular quantification that a Biodex system provides.

# Versatility, Marketability

Affordable solutions for orthopedic, sport, pediatric, industrial, neurological and older adult patients

To stay competitive in today's dynamic physical medicine marketplace, you need to be adaptable. To be adaptable, you need equipment that can keep pace with progressive thinking and innovative therapies. You need dependable, versatile tools that give you the means to take on new challenges and extend capabilities. You need a device that can be used to test and rehabilitate patients ranging from the most frail to world class, elite athletes. **You need the Biodex System 4.**

## INDUSTRIAL MEDICINE



By employing the optional Work Simulation, Lift and Back Attachments, the System 4 can perform:

- pre-placement testing
- functional capacity evaluation
- work hardening

*"Obtaining defensible, objective, reliable and valid data are critical components when performing physical capability strength tests to industry. The Biodex Isokinetic System provides, the quality control we need to satisfactorily provide new hire and return-to-work evaluations."*

Tom Gilliam, PH.D

Industrial Physical Capability Services, Inc. (IPCS)

## OLDER ADULT



The Biodex Fall Risk Assessment & Conditioning Program has been employed by leading clinics for over ten years. It's the only fall program that incorporates a complete array of objective tests. Strength is a critical factor for a rapid response to a balance disturbance. Isokinetic testing will identify weakness; exercise will improve ankle and leg strength.

Note: Fall Program Protocols are available at [www.biodex.com/S4](http://www.biodex.com/S4)

## RESEARCH

The Biodex Multi-Joint System has been used in over 1,000 published studies. Unique capabilities include:

### Analog Signal Access Interface

This optional feature provides real time analog voltage representations of torque, position and velocity from the dynamometer.

### Customized Motor Control

The "Researcher's Tool Kit" provides the advanced investigator direct access to the embedded dynamometer system not otherwise available via the application software. The core of the Tool Kit is an extension to the System 4 firmware that exposes the motor controls to an external interface designed by the researcher.

### Curve Analysis

Curve analysis allows the user to conduct complete neuromuscular evaluation.

Note: Learn more about the Researcher's Tool Kit and the Analog Signal Access Interface at [www.biodex.com/S4](http://www.biodex.com/S4)



## From Private Practices we hear...

We bought the System 4 to give our practice a competitive edge over competition. Referring physicians like the fact that we use standardized protocols and provide objective data. For patients with limited visits, the objective data is useful in convincing them to enter our post-insurance sports training program. We also provide pre-season screening for local schools. That program gives us two benefits: players become familiar with the clinic, and if we identify muscle imbalance, they can also enter our sport training program. To expand our practice, the Biodex System will be used in a new industrial medicine program and other older adult program.

## From Athletic Trainers we hear...

After an injury the Biodex is a truly valuable rehab tool, speeding recovery and return to function. Without it - we are guessing. We have athletes that want to play. We require as much information as possible to make an informed decision. Only the Biodex can objectify their status and allow me to confidently return the player to action.



# Unmatched Testing, Training and Treatment

## POSSIBILITIES



More than biomechanically correct, System 4 attachments are part of an integrated system designed to make set-up faster and easier

If you are an experienced Biodex clinician, you will find System 4 even easier to use than previous systems; if you are new to Biodex, the expanded array of on-demand audio and visual aids, color-coded set-up icons and full color positioning posters make set-up and positioning easy to learn.

The on-demand audio and visual aids take you step-by-step through each attachment set-up, the new four-color poster acts as a reminder just a quick glance away and the color-coded positioning markers help to make set-up simple.

To ensure that each clinician fully understands how to use the Biodex System every Biodex user receives extensive installation and training by a certified Biodex trainer. Follow-up training is available from the Biodex support staff and Biodex University Workshops.

*Patient set-up is as easy as 1-2-3... GO!*



**STEP #1** Adjust chair and dynamometer.



**STEP #2** Set Range of Motion.



**STEP #3** Select mode... GO!

*...optional attachments increase your capabilities.*



• Work Simulation Tools



• Closed Kinetic Chain Attachment



• Lift Simulation Attachment



• Dual Position Back Extension/Flexion Attachment

*S4 offers virtually unlimited functional patterns to help you treat and document a wider patient base than any other system.*

# Education

**Biodex is your long-term partner in the development of positive outcomes.**

*Biodex education programs ensure that clinicians remain aware of current developments and that the equipment is used correctly.*

## Installation

Biodex Systems are installed by a certified application specialist and include a one-day in-service training program. Step-by-step hands-on training will show you how to use and maximize your Biodex equipment to help you meet your specific demands.



*System 4 PRO*

## CONTINUING EDUCATION



In addition, Biodex provides on-going Application Training Workshops, scheduled throughout the year around the country and the world. These full day workshops include practical hands-on hardware and software training and are useful for both beginner and intermediate users.



*Balance System SD*

## ONLINE TRAINING

Biodex also offers online “one-on-one” training via interactive conference technology, making it even more convenient to stay up-to-date.

For more information contact our Clinical Education Department or visit us at [www.biodex.com/clined](http://www.biodex.com/clined)



*Offset Unweighing System*

## SERVICE

Biodex phone support and on-site field service allow you to concentrate on treating patients, not your equipment. Biodex Service is the most comprehensive program in the field of physical medicine.

For upcoming workshops, visit us on the web at [www.biodex.com](http://www.biodex.com)



*Gait Trainer 2*

## HAVE A QUESTION?

Visit our new message board at [www.biodex.com](http://www.biodex.com)

*Biodex stays with you every step of the way with training, workshops, software support and superior service.*

# For a Healthier Tomorrow

## MEETING THE CHALLENGE

Some professions are by nature more dynamic than others, and the field of physical medicine is no exception. Shifting trends in medicine, legislation and advancing technology continue to challenge the modern clinic with issues it cannot ignore.

- Biodex keeps your clinic competitive... with the latest innovations in effective rehabilitation; tools and protocols that heal patients and attract referrals.
- Biodex helps prove your effectiveness... with objective data that documents need, progress and outcome to referrals, patients and third-party payers.
- Biodex expands your capabilities... from orthopedics to industrial medicine, from pediatrics to older adults. Biodex provides versatility and adaptability all in one, ultra-expandable system.
- Biodex helps you boost patient throughput... it's easier and faster to setup, test and treat with than any other system.
- Biodex ensures that you are clinically correct... with clinical research partners and protocols, your practice will be second to none.
- Biodex prepares you for new payment trends... getting patients better, faster. Even with flat rate or restricted time; it provides fast, effective care to help you prosper in a heavily regulated reimbursement environment.
- Biodex means unlimited growth... Biodex means business.



Call us at 1-800-224-6339 (Int'l 631-924-9000),  
or visit us at **[www.biodex.com](http://www.biodex.com)**,  
to take advantage of the "Clinical Advantage"™ today.

*"Biodex boosts your profitability, even under  
the most stringent payment systems."*



# Specifications

Exactly what you need, when you need it... nothing less - guaranteed



## SYSTEM 4 PRO

*Patient Positioning System with motorized seat height, front-to back chair adjustment, fully assisted dynamometer height adjustment, and side-to-side adjustment*

## S4 PRO

System 4 PRO features: Touch screen interface for quick, easy multi-mode operation; isokinetic, isometric, isotonic, reactive eccentric and passive

- Concentric speed up to 500 deg/sec
- Eccentric speed up to 300 deg/sec
- Concentric torque up to 500 ft-lb (680 Nm)
- Eccentric torque up to 400 ft-lb (542 Nm)
- Passive speed as low as .25 deg/sec
  - Passive torque as low as .5 ft-lb
  - Isotonic torque as low as .5 ft-lb

### Clinical Data Station:

- Processor: Pentium 4 2.8 GHz
- 512 MB RAM
- 80 GB Hard Drive
- 48x CDRW
- Windows XP Operating System
- Biodex Advantage Software
- LCD Flat Panel Touch Screen Color Monitor with integrated speakers
- Color Printer

### Attachments:

- Attachments for ankle, knee, shoulder, elbow, wrist and hip
- Attachment cart
- Calibration kit
- Manuals and wall chart
- 64 square feet operating space (6 square meters)

### Approvals:

ETL and cETL listed to UL 60601-1, CAN/CSA C22.2

No.: 601-1-M90 and EN60601-1,

CE conformity to M.D.D. 93/42/EEC\*

\*When sold complete with computer, monitor and printer.



## Options to S4 Pro

- Dual Position Back Extension/Flexion Attachment
- Lift Simulation Attachment
- Closed Kinetic Chain Attachment
- Work Simulation Tools
- Anti-Shear Attachments
- Pediatric Attachments
- Wide Seat
- Analog Signal Access Interface
- Pediatric Attachments
- Research Tool Kit



## SYSTEM 4 QUICK-SET

*Patient Positioning System with fixed seat height, fully assisted dynamometer height adjustment, front-to back chair adjustment.*

## S4 QUICK-SET

System 4 QUICK-SET features: Touch screen interface for quick, easy multi-mode operation; isokinetic, isometric, isotonic, reactive eccentric and passive

- Concentric speed up to 500 deg/sec
- Eccentric speed up to 300 deg/sec
- Concentric torque up to 500 ft-lb (680 Nm)
- Eccentric torque up to 400 ft-lb (542 Nm)
- Passive speed as low as .25 deg/sec
  - Passive torque as low as .5 ft-lb
  - Isotonic torque as low as .5 ft-lb

### Clinical Data Station:

- Processor: Pentium 4 2.8 GHz
- 512 MB RAM
- 80 GB Hard Drive
- 48x CDRW
- Windows XP Operating System
- Biodex Advantage Software
- LCD Flat Panel Touch Screen Color Monitor with integrated speakers
- Color Printer

### Attachments:

- Attachments for ankle, knee, shoulder, elbow, and wrist
- Attachment cart
- Calibration kit
- Manuals and wall chart
- 32 square feet operating space (3 square meters)

### Approvals:

ETL and cETL listed to UL 60601-1, CAN/CSA C22.2

No.: 601-1-M90 and EN60601-1,

CE conformity to M.D.D. 93/42/EEC\*

\*When sold complete with computer, monitor and printer.



## Options to S4 Quick-Set

- Dual Position Back Extension/Flexion Attachment
- Lift Simulation Attachment
- Closed Kinetic Chain Attachment
- Work Simulation Tools
- Hip Attachment
- Anti-Shear Attachments
- Pediatric Attachments
- Wide Seat
- Analog Signal Access Interface
- Research Tool Kit



Certified Quality Management System

*New York Giants*  
*Dallas Cowboys*  
*San Francisco 49ers*  
*Cincinnati Bengals*  
*Miami Dolphins*  
*New York Jets*  
*Denver Broncos*  
*Indianapolis Colts*  
*Florida Marlins*  
*New Orleans Saints*  
*Tampa Bay Buccaneers*  
*Los Angeles Angels*  
*Toronto Blue Jays*  
*Washington Capitals*  
*Philadelphia Phillies*  
*Los Angeles Dodgers*  
*Chicago Bears*  
*New York Mets*  
*Cleveland Browns*  
*Kansas City Royals*  
*San Diego Chargers*  
*Detroit Tigers*  
*Seattle Seahawks*  
*Los Angeles Lakers*  
*St. Louis Cardinals*  
*New York Rangers*  
*Chicago White Sox*  
*Anaheim Mighty Ducks*  
*Seattle SuperSonics*  
*Philadelphia Eagles*  
*Pittsburgh Pirates*  
*Kansas City Chiefs*  
*Pittsburgh Steelers*  
*Carolina Panthers*  
*Jacksonville Jaguars*  
*Arizona Cardinals*  
*Los Angeles Clippers*  
*Orlando Magic*  
*Washington Wizards*  
*Atlanta Falcons*  
*Texas Rangers*  
*Houston Rockets*

*...just some of the elite  
 professional teams who  
 depend on Biodex*

*Just some of the over 4,000 Biodex  
 dynamometers in use around the world.*

Hospital for Special Surgery  
 Kerlan-Jobe  
 Andrews Institute  
 John Hopkins  
 Hughston Clinic  
 Champion Sports Medicine  
 Duke University  
 Mayo Foundation  
 Iowa State University  
 Cleveland Clinic Lutheran Hospital  
 Rehab Institute of Chicago  
 Cincinnati Children's Biodynamics Lab  
 University of Minnesota  
 Lockheed Martin / NASA  
 University of Alabama  
 Baylor Medical Center  
 Appalachian Rehabilitation  
 Shriners Hospital for Children  
 North Hills Orthopedic  
 Keller Army Hospital  
 Virginia Polytech Institute  
 University of Kansas  
 University of Notre Dame  
 S.O.A.R. Physical Therapy  
 Institute of Dallas for Ergonomics  
 University of Southern California  
 Children's Hospital of Wisconsin  
 University of Chicago Hospitals  
 Missouri State University  
 University of Evansville  
 Spaulding Rehabilitation Hospital  
 University of Michigan  
 Las Colinas Physical Therapy  
 Tulane University  
 Kennedy Krieger Institute  
 University of Florida  
 North Fork Physical Therapy  
 University of Oklahoma  
 Shands Rehab  
 Children's Hospital of Philadelphia  
 University of Missouri  
 St. Francis Hospital  
 North Carolina State  
 Texas Tech  
 University of Miami  
 U.S. Army  
 Indiana State University  
 National Institute of Health  
 University of Wisconsin  
 Arkansas State University  
 University of Louisville  
 Sports Medicine of Princeton  
 University of Oregon  
 Michigan State University  
 West Point  
 Ohio Orthopedic Center of Excellence  
 Mt. Sinai Hospital  
 Athens Regional Medical Center  
 Florida State University  
 Goldsboro Orthopedics  
 Atlanta Sports Medicine Institute  
 University of Hawaii  
 Baltimore Sports Rehabilitation  
 University of Vermont  
 St. Jude's Children's Hospital  
 University of Massachusetts  
 DeQueen Regional Medical Center  
 University of Tennessee  
 Rusk Institute  
 College of Charleston  
 Continental Airlines  
 Dept of Veterans Affairs  
 Ohio University  
 Baptist Hospital  
 McGill University  
 Bass Physical Therapy & Rehabilitation  
 University of Nebraska  
 Hofstra University  
 JFK Medical Center  
 University of Toledo  
 Cincinnati Sports Medicine  
 St. Barnabas Medical Center  
 Kessler Institute  
 Baylor Institute for Rehabilitation  
 University of Pittsburgh  
 University of South Florida  
 St. Elizabeth Hospital  
 Baylor University  
 VA Hospitals  
 Mills Peninsula Hospital  
 Anderson University  
 Bradley Wellness Center  
 St. Louis Children's Hospital  
 Brooke Army Medical Center  
 St. Louis University  
 Campbell Clinic  
 Northern Illinois University  
 Naval Hospital  
 Morehead State University  
 Hill Country Memorial Hospital  
 Williamsburg Physical Therapy  
 Northwestern University  
 Case Western Reserve University  
 Oklahoma State University  
 Centinela Hospital  
 Texas Woman's University  
 Children's Hospital  
 University of Wyoming  
 Kentucky Sports Medicine  
 Nova Care  
 Ohio State University Sports Medicine  
 Tidewater PT  
 University of Cincinnati  
 Cincinnati Children's Hospital  
 U.S. Coast Guard  
 Texas University  
 Clarkson University  
 Tripler Army Medical Center  
 University of Washington  
 Loras College  
 College of William & Mary  
 University of Illinois  
 Coral Gables Hospital  
 University of Maine  
 National Rehab Hospital  
 University of Virginia  
 Creighton University  
 Nash Hospital  
 Stony Brook University  
 Robert Volski & Associates  
 Florida A&M University  
 Sunshine Ortho & Sport  
 PRO Rehab  
 Fordham University  
 University of Delaware  
 Fort Drum  
 Beaufort County Hospital  
 University of North Carolina  
 Healthsouth  
 University of Kentucky  
 Hershey Medical Center  
 Benchmark  
 High Point University  
 U.S. Air Force Academy  
 University of South Alabama  
 Hospital for Joint Diseases  
 University of Maryland  
 Physical Performance Institute  
 Texas A&M  
 Baptist Health Rehabilitation  
 Texas Children's Hospital  
 Kagan, Jugan & Associates  
 Appalachian Therapy Center  
 Princeton Orthopedics  
 University of North Iowa  
 Kennesaw State University  
 Beth Israel Medical Center/Singer Div.  
 William Paterson University  
 Montclair State University  
 Kean University  
 Valley Hospital  
 Johnson Rehab Institute  
 University of Wisconsin - Lacrosse

University of Tulsa  
 Keystone Rehabilitation Systems  
 PRO Physical Therapy  
 University of Connecticut  
 Morton Plant Hospital  
 Boston University  
 Kenner Army Community Hospital  
 Walter Reed Army Medical Center  
 P.R.I.D.E  
 Schumpert Medical Center  
 Kaiser Foundation  
 Sierra Pacific Orthopedic Center  
 Kent State University  
 Belmont University School of PT  
 Louisiana State University  
 SportsCare Physical Therapy  
 Brigham Young University  
 St. Bernard Rehabilitation  
 Louisiana Tech University  
 St. Joseph's Hospital  
 Marquette University  
 Sutter Medical Foundation  
 St. Luke's Hospital  
 Northern Kentucky University  
 Cleveland Marymount Hospital  
 Bon Secours Hospital  
 Seton Hall University  
 Shriners Hospital  
 Slippery Rock University  
 St. Mary's Hospital  
 University of Toronto  
 St. Michael's Hospital  
 Wake Forest University  
 Mt. Sinai Sports Therapy Center  
 Physiotherapy Associates  
 St. Vincent Hospital  
 University of Texas  
 Muhlenberg Hospital Center  
 U.C. Davis Medical Center  
 Mississippi State University  
 United Airlines  
 University of Rhode Island  
 Productive Rehabilitation  
 Children's Hospital of Boston  
 Towson University  
 Body Mechanix PT  
 Trover Foundation Sports Medicine  
 Murphy Wainer  
 National Naval Medical Center  
 University of Iowa  
 Ortho Sport  
 Anderson Institute for Rehab  
 Nova Southeastern University  
 Palo Alto Medical Foundation  
 Arizona State University  
 Penn State University  
 Performance Rehab  
 Ohio Therapy Institute  
 University of Nevada  
 Providence Waco  
 University of South Carolina  
 Rancho Los Amigos  
 Grand Valley State University  
 St. Vincent Rehabilitation  
 Rutgers  
 Cleveland State University  
 River Valley Rehabilitation  
 University of Colorado  
 Boeing  
 South Jersey Rehab Hospital  
 Virginia Tech  
 Catawba College  
 Stanford University  
 Stanly Regional  
 Syracuse University  
 Temple University  
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