



***Sport injuries &
Corrective Exercises
Laboratory***

Foot pressure (Emed Pedography Platforms)



Emed Pedography Platforms are accurate electronic systems for recording and evaluating pressure distribution under the foot in static and dynamic conditions. The Emed systems belong to the family of novel pedography measurement platforms. All scientific Emed platforms operate with calibrated capacitive sensors.

Features:

1. are portable platform measuring systems
2. contain calibrated capacitive sensors
3. get connected via USB to laptop or desktop computers
4. require Windows 7 or 8 operating system
5. accurately measure foot pressure and body weight in static and dynamic mode
6. start recording automatically when the subject's foot contacts the platform
7. data acquisition can be controlled by novel database
8. link with novel foot report software

Specifications:

1. dimensions: 690x403x 16(18)

2. number of sensors: 6080
3. sensor resolution (sensors/cm²): 1/4
4. pressure range (kPa): 10-1270
5. pressure threshold (kPa): 10
6. synchronization: frame by frame in- and out- synchronization

۵۴

Gait and running analysis system

(schein company)



The SCHEINWORKS System allows using several measuring systems with only single software. The core of the analysis is the treadmill with integrated pressure measuring plate. In combination with the optional synchronized SCHEINWORKS cameras, motion analysis can also be performed visually. The SCHEINWORKS Digi PED foot scanner, which can also be used as an individual measuring unit, complements the analysis. The treadmill is a practical solution for smaller sized set-ups if only little space is available. Its light-weight construction makes it perfect for mobile use. It can be set up and folded away easily. It is delivered completely assembled and can be taken into operation at once.

Features:

1. Speed: 0,8 - 14 km/h
2. Running surface: (L x W) 122 x 144 cm
3. Weight: approx. 75 kg
4. Dimensions: (L x W x H) 160 x 80 x 131 cm
5. Dimensions folded: (L x W x H) 159 x 80 x 47 cm
6. Track access height: 19 cm
7. Maximum user weight: approx. 100 kg
8. Sensor surface: 94,8 x 40,6 cm
9. Number of sensors: 5376

Balance System SD



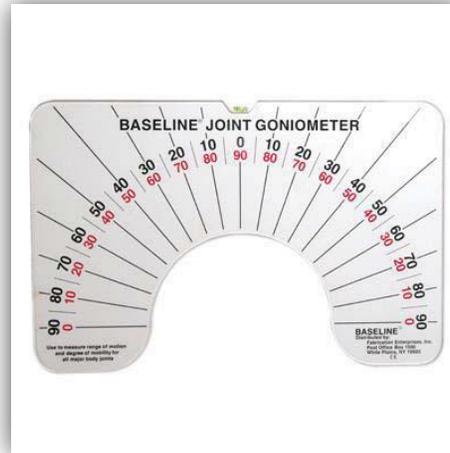
The Biodex Balance System SD has been designed to meet the needs of everyone looking to improve balance, increase agility, develop muscle tone and treat a wide variety of pathologies. Featuring easy-to-follow “touch-screen” operation, the Balance System SD is simple to learn and operate, leading the user step-by-step through testing protocols and training modes in both static and dynamic formats. Extremely versatile, it is the only system that provides a fast, accurate Fall Risk Screening and Conditioning Program for older adults; closed-chain, weight-bearing assessment and training for lower extremity patients; and adds the objective balance assessment component to a concussion management program. The Balance System SD also serves as a valuable training device to enhance kinesthetic abilities that may provide some degree of compensation for impaired proprioceptive reflex mechanisms following injury. Using this unique device, clinicians can assess neuromuscular control by quantifying the ability to maintain dynamic bilateral and unilateral postural stability on a static or unstable surface.

Features:

1. Enhanced Sensory Integration Balance Testing Capabilities
2. Custom Reporting
3. Six Training Modes and Five Testing Protocols
4. Standardized Fall Screening and Athlete Knee Injury Screening Tests
5. Audio Biofeedback

6. Visual Biofeedback
7. Large Display
8. Multipurpose Connectivity
9. Adjustable Support Handles
10. Dimensions: 30" w x 44" depth x 74" h (76 x 112 x 188 cm)
11. Base: 30" w x 44" depth x 8" h (76 x 112 x 20 cm)
12. Platform: 21.5" diameter (55 cm)
13. Viewing Area: 12.1" (30.7 cm) diagonal screen; 9.75" w x 7.25" h (24.8 x 18.4 cm)
14. Angle: Adjustable from vertical back to approximately 45°
15. Display Height: Adjustable from 53" to 68" h above platform (135 x 173 cm); 74" h (188 cm) maximum from floor.
16. Stability Levels: 12 dynamic levels, plus locked for static measurements
17. Platform Tilt: 20° from horizontal in all directions
18. Arthrodiagonal Protractor

Arthrodial Protractor

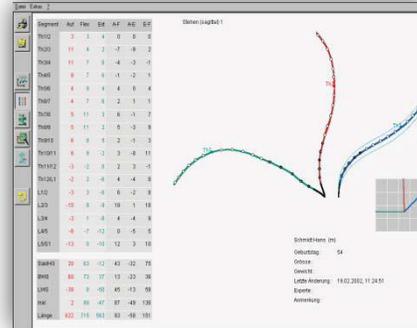


This device quickly and accurately measures the range of motion for all major joints of the body. It is Ideal for difficult-to-measure cervical rotation, lateral flexion of the head, and anterior-posterior cervical flexion. It is durably constructed of one piece of clear acrylic plexi-glass and features a built-in leveling bubble to ensure accuracy. Degree markings are red and black for easy reading. It Includes two 180° opposing scales in 5° increments.

Features:

1. Measure range-of-motion for all major articulations, cervical rotation, lateral flexion of the head and anterior-posterior cervical flexion.
2. Bubble lever assures measurement is made on horizontal plane.
3. Measures 18" x 12" (46 x 30cm).
4. Includes two 180°

Spinal Mouse



The Spinal Mouse is a new and compact measuring device allowing computer assisted analysis and display of the spinal cord's shape and mobility in the sagittal and frontal planes. It surpasses most "traditional" methods in its precision, relevance and clarity of display, at an optimal cost/benefit ratio. It is both practitioner and patient friendly, non-invasive, and completely free from radiation. The spinal Mouse® measuring head is guided along the spinal column, automatically adjusting itself to the contours of the back. The relevant clinical data is then wirelessly transferred to a personal computer or laptop. The excellent reliability and high degree of validity of the data in comparison with X-ray images has been proven repeatedly in scientific tests. With spinal Mouse any desired number of measurements can be tracked for each patient and changes during the course of treatment becomes apparent.

Features:

1. spine alignment, measuring segmental and global angles in the sagittal and frontal planes
2. posture and spinal mobility
3. spine functions and performance
4. quickly and easily performed
5. accurate and reliable
6. harmless to the patient

Dual Digital Inclinometer



The Dual Digital Inclinometer is the faster, easier, smarter way to measure spine and extremity ranges of motion without a computer. Dual Digital Inclinometer speeds up spine evaluations with dual inclinometer protocols recommended by the American Medical Association (AMA) and automatic data collection. Dual Digital Inclinometer produces easy to read digital results. The Dual Digital Inclinometer records and stores results for up to 20 tests allowing clinicians to perform consecutive tests without stopping to record data. Later review of test data allows for less distractions and less transcription errors. Dual Digital Inclinometer allows clinicians to evaluate motion using dynamic dual Inclinometer and static single Inclinometer (similar to using Goniometer) protocols.

Features:

1. Dual or single inclinometer for both spine and extremity ROM measurements
2. Automatically records range of motion without having to push a button when using auto-rep feature
3. Simplifies measurement of ankylosis, kyphosis and individual joint movements with unique static testing mode
4. Audio prompt clinicians for zero, end of rep, end of motion and startup/shut down
5. Achieves accuracy and repeatability of $\pm 2^\circ$
6. Dual inclinometer reduces repetitions and instrument placements for spine ROM
7. Measure true range of motion plus movement at the upper and lower extremes of the spine segment
8. Measure agonist/antagonist movements, like flexion and extension, without stopping or repositioning

Biplane Goniometer



This handheld, transparent goniometer standardizes the clinical assessment of ankle dorsiflexion. Structure allows examiner to control entire forefoot, subtalar joint and ankle joint, preventing unacceptable pronation during measurement. The plantar platform acts as a goniometric mobile arm, helping to minimize the variables in technique common with single-plane goniometers. Goniometer has a durable polycarbonate base.

Features:

1. Durable polycarbonate base
2. No plastic parts
3. Able to measure 360 °