

# 2026 TACSM CORPORATE SPONSORS



## PLATINUM LEVEL SPONSORS



## GOLD LEVEL SPONSORS



## SILVER LEVEL SPONSORS



WE WOULD LIKE TO THANK NATIONAL ACSM AND GSSI FOR THE CONTINUED SUPPORT OF REGIONAL CHAPTERS!



# Meridian Series™

Cardiorespiratory Diagnostic Systems



## ELEVATE EXERCISE PHYSIOLOGY EDUCATION WITH MERIDIAN

Equip your students with the tools and knowledge they'll need for successful careers in healthcare, research and performance.

## THE MERIDIAN SERIES: FROM CLASSROOM TO CLINIC, LAB TO PRACTICE

### WHY CHOOSE THE MERIDIAN SERIES™ FOR YOUR COLLEGE OR UNIVERSITY PROGRAM?

The Meridian Series™ cardiorespiratory diagnostics system is an innovative solution designed to produce the highest level of performance when assessing cardiovascular and respiratory function. We've redefined diagnostic testing standards with a focus on accuracy and precision. Our CPET systems let your students explore human physiology in depth, understanding how the cardiovascular, respiratory, and metabolic systems interact during exercise and at rest. It equips your students with practical skills they'll actively use in hospitals, clinics and research settings.



#### MODULAR SYSTEM DESIGN

Flexible lab configurations:

- Tabletop option plus three cart configurations are available.
- Labs have the option to use their own computers.



#### FLOW SENSORS FOR SIMPLICITY AND ACCURACY

Teach students best practices in patient care and lab hygiene with our proprietary preVent® flow sensors and DirectConnect™ metabolic flow sensors:

- Maximum infection control
- Save time between patients
- Meets or exceeds ATS/ERS standards.



#### SEAMLESS SUBJECT TRANSITIONS

Move effortlessly from one subject to the next, maximizing your valuable lab time.

- No warm-up delays: Get started immediately, every time.
- No flow recalibration: Switch between subjects without needing to readjust settings.



# Unmatched Functionality for Comprehensive Learning

GET MORE TESTING DONE WITH ONE-FLOW CALIBRATION/VERIFICATION PER DAY

Minimize setup time and maximize hands-on learning opportunities

UTILIZE ASCENT SCHEDULER FOR AUTO WARM-UP

Ensure the system is always ready for immediate testing, optimizing lab time.

IN-DEPTH CARDIORESPIRATORY ANALYSIS

Provide students with rich Breath-by-Breath CPET and Indirect Calorimetry data for detailed analysis of exercise capacity and metabolic function.

POWERED BY ASCENT™ SOFTWARE

Our intuitive Ascent™ software simplifies CPET testing and provides powerful analytical tools:

**EXERSCRIPT:** Design and run custom exercise tests to create personal programs based on subject's CPET results.

**O<sub>2</sub> KINETICS:** Explore oxygen deficit and debt to analyze how efficiently the body utilizes oxygen during exercise and recovery.

**QUERY DATABASE:** Easily find, organize, and analyze test results for projects and research.

**SEAMLESS DATA EXPORT:** Easily move test results and charts into reports and presentations.

**INSIGHT™ QUALITY CONTROL GAUGES:** Visually assess results to spot normal reactions and unusual patterns.

**CURVEFITS:** Analyze complex variable relationships both graphically and numerically.

**EXTERNAL CONTROL:** Connect and control your existing lab treadmills and cycle ergometers.

**CUSTOMIZABLE VIEWS:** Tailor data presentation (averages, graphs, tables) to fit your teaching needs.



## Essential Supplies for Hands-on Learning

Our systems are designed for seamless integration with a range of essential supplies, ensuring your students gain practical experience with the tools they'll encounter in the field. We recommend lab packaging including coupler, flow sensor (see page 3), and neoprene mask.



**MOUTHPIECES**

SHOWN: MOUTHPIECE WITH SALIVA TRAP



**FACE TENT**

SHOWN: FACE TENT WITH BACTERIAL FILTER



**FACE MASK**

SHOWN: PREVENT™ FACE MASK (SIZES XS-L)



**FACE MASK**

SHOWN: V2/8900 MASK (SIZES XS-L)



**COUPLER**

SHOWN: COUPLER FOR PREVENT FACE MASK

# The Meridian Series: All-in-One for Education & Research

The Meridian Series provides a complete solution for colleges, universities, and educational institutions, empowering both teaching and research. This advanced platform seamlessly combines Spirometry, Gas Exchange, and Indirect Calorimetry. Students gain hands-on experience and conduct in-depth research into lung function, exercise capacity, cardiac performance, and metabolic analysis. Elevate your teaching and prepare students for diverse health and exercise science careers with the Meridian Series.



Tall Cart with Dual Monitor



Short Cart with Single Monitor



Also Available:

### Desktop Configuration

System can be placed on any solid surface for maximum flexibility. The computer can be customer provided for all configurations.



## preVent® flow sensor FOR SIMPLICITY AND ACCURACY

### Efficiency Redefined, Hygiene Elevated

Our proprietary preVent® flow sensor saves time between patients and provides maximum infection control compared to other pneumotach devices. It offers the highest quality flow technology on the market in terms of accuracy and precision.

- Eliminates warm-up or flow recalibration between patients.
- Simple snap in setup contains no moving parts or electronics for maximum infection control.
- Options to use with a filter (for spirometry only), sterilize, or discard, making it extremely versatile and cost effective.
- Meet ATS/ERS standards and specifications.
- Independently validated\*

\* Porszasz JA, Barstow TJ, Wasserman KA. Evaluation of a symmetrically disposed Pitot tube flowmeter for measuring gas flow during exercise. *Journal of Applied Physiology*. 1994 Dec 1;77(6):2659-65.

### YOUR INFECTION CONTROL, YOUR CHOICE:

#### THREE OPTIONS FOR YOUR PEACE OF MIND

We understand the importance of infection control in every diagnostic assessment. That's why we offer you the flexibility to choose the approach that aligns best with your needs. With the preVent® flow sensor, you're in control and can select the option that provides the level of safety and convenience you require.

1. **Change:** Simply change the filter and keep the same preVent flow sensor.
2. **Re-Use:** Change the flow sensor between patients and replace with disinfected components.
3. **Dispose:** Dispose of the flow sensor after each patient.

# Service & Support

## BEST-IN-CLASS SERVICE & SUPPORT

- Our specialists, including exercise physiologists, complete extensive training on each MGC Diagnostic system.
- Benefit from our U.S.-based Live Technical Support, where expert assistance is readily available by phone, internet, and remote connection. We're committed to answering 90% of calls within two minutes.
- Regional Field Service Engineers are dispatched for on-site support.

The Meridian Series™ cardiorespiratory diagnostic systems offer maximum flexibility to configure your gas exchange systems. Simply select the product that best meets your needs, or talk to your product sales representative for more info.

TESTING CAPABILITIES	CPX	CARDIO <sub>2</sub>	CCM
<b>PULMONARY FUNCTION TESTS:</b>			
• Spirometry (FVC, SVC, MVV)	✓	✓	✓
• Arterial blood gases (ABG manual entry)	✓	✓	✓
<b>ECG/HEART RATE CONFIGURATIONS:</b>			
• Integrated 12-lead ECG	-	✓	-
<b>GAS EXCHANGE TESTS:</b>			
• Direct fick cardiac output	✓	✓	✓
• Exercise capacity	✓	✓	○
• Nutrition assessment: REE/RMR	○	○	✓
		✓ standard	○ optional

## SPECIFICATIONS

### MODULE ONLY

- H x W x L: 5 x 15.5 x 14 in (12.7 x 39.37 x 35.56 cm)

### TALL CART

#### DUAL MONITORS

- Base: W x D: 23 x 27 in (58.42 x 68.58 cm)
- Width: 48 in (121.92 cm)
- Height: 70 in (177.8 cm)

#### SINGLE MONITORS

- Base: W x D: 18 x 24 in (45.72 x 60.96 cm)
- Width: 48 in (121.92 cm)
- Height: 70 in (177.8 cm)

### SHORT CART WITH SINGLE MONITOR

- Base: W x D: 18 x 24 in (45.72 x 60.96 cm)
- Width: 24 in (60.96 cm)
- Height: 60 in (152.4 cm)

### PREVENT® FLOW SENSOR

- Bidirectional Pitot tube flow sensor
- Range: ±18 L/s
- Accuracy: ±2% or 50 mL, whichever is greater
- Resistance: <1.5 cm H<sub>2</sub>O @ 14 L/s
- Dead space: 39 mL

### DIRECTCONNECT™ METABOLIC FLOW SENSOR

- Bidirectional Pitot tube flow sensor
- Patent number: 5,038,773
- Accuracy: ±2% or 10 mL, whichever is greater
- Resolution: 2.4 mL/s
- Range: 0–40 L/min
- Application range: 100–2000 mL
- Tidal volume range: 100–2000 mL

### POWER REQUIREMENTS

- 100-240 V/50-60 Hz

### O<sub>2</sub> ANALYSIS

- Type: Galvanic
- Range: 0-100%
- Response: (10-90%) <180 ms
- Accuracy: ±1%

### CO<sub>2</sub> ANALYSIS

- Type: Non-dispersive infrared (NDIR)
- Range: 0-15%
- Response: (10-90%) <180 ms
- Accuracy: ±0.1% (0-10% CO<sub>2</sub>)

### GAS SAMPLE

- Proprietary gas-drying sample circuit

### GAS REQUIREMENTS

### ULTIMA CARDIO<sub>2</sub>/CPX/CCM

- Calibration gas: 5% CO<sub>2</sub>, 12% O<sub>2</sub>, bal N<sub>2</sub> (5-7 psi)
- Reference gas (recommended): 21% O<sub>2</sub>, bal N<sub>2</sub> (5-7 psi)



MGC DIAGNOSTICS CORPORATION, through its subsidiary Medical Graphics Corporation  
350 Oak Grove Parkway St. Paul, Minnesota USA 55127-8599

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MGC Diagnostics and its affiliates are equal opportunity/affirmative action employers committed to cultural diversity in the workforce.

Part# 061389-001 RevA



# THE MOST TRUSTED METABOLIC CART

The System of Choice  
at NASA and U.S.  
Olympic Training  
Centers.



## PREFERRED BY

U.S. (TOSH/U.S. Ski Team) and  
Canadian Olympic athletes (WinSport)

Duke U, Red Bull, Brooks Sports,  
Saucony, Nike, New Jersey Devils,  
Milwaukee Bucks

U.S. Army, Navy SEAL Team Six, NIH,  
USDA as well as Universities around  
the Globe

## CONTACT US

1043 N Eastcapitol Blvd  
Salt Lake City, UT 84103  
Toll Free: 800.942.7255  
www.parvo.com | info@parvo.com



### ACCURATE

- Precision “Yeh” algorithm
- Every system validated by  
Douglas bag method



### RELIABLE & EASY TO USE

- 3-Year Warranty Included
- Durable, Proven O2 Sensor
- Intuitive. Gas cal in 40 sec.



### Exceptional Support

- Rapid response service
- We back our product with  
World Class support



VO2MAX | RMR | CPET

Accurate - Reliable - Portable



The Ultimate Portable Metabolic Analyzer

**Exclusive Offer**

Save 10%  
**\$759**  
USD

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Disclaimer: Product is not a medical device; it is not intended to diagnose, treat, cure, or prevent any disease.  
Consult your physician before starting any dietary or fitness programs.

US Patent No. 11284814 | European Patent No. 4311486 | PATENTS PENDING



# VO2 MASTER

Exclusive Offer

**\$6835** USD

~~\$7595 USD Regular Price~~

Valid for 30 DAYS

Get **10% OFF** the VO2 Master Professional Kit, everything you need to test multiple times daily!

- *VO2 Master Analyzer*
- *4 Mask Sizes – Fits all Demographics*
- *Consumables for 150 Tests*



## How to Redeem Offer

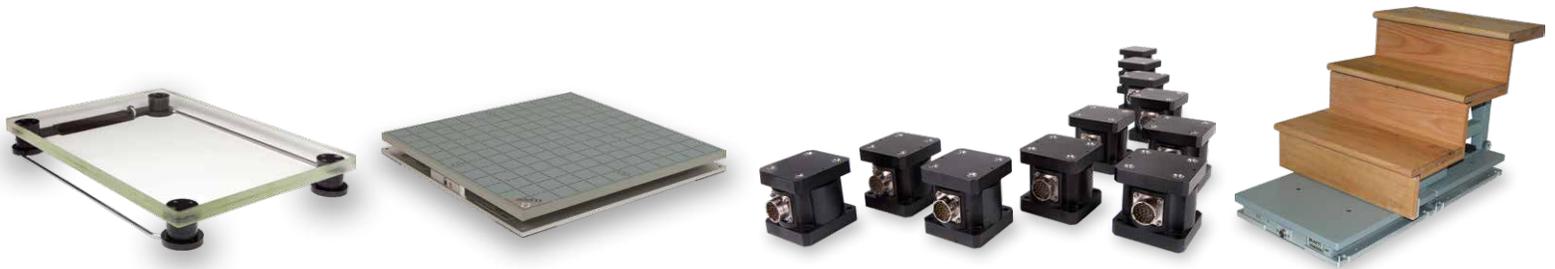
To redeem your exclusive offer contact us by phone at +1(833)862-6787 or redeem online by scanning the QR code.

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No other discounts can be applied with the exclusive offer.



THE BEST SCIENCE BEGINS WITH THE BEST MEASUREMENTS

# AMTI

At AMTI we appreciate the importance of accuracy and precision in scientific research and healthcare. We innovate continually to provide you with the best equipment for your biomechanical applications. Whether studying gait, balance, sports, or more, researchers and clinicians worldwide rely on AMTI to provide instrumentation with the highest performance and repeatability.

AMTI multi-axis force plates precisely measure three forces and moments to provide a complete kinetic representation of movement. As an ISO 9001 certified, ISO 13485 certified, and ISO 17025 accredited company, we are committed to continuous quality product evaluation and improvement.

## Force plates for biomechanics

AMTI multi-axis force plates exhibit high sensitivity and superior accuracy to provide the best fundamental measurements. Available in mounted and portable versions with a complete suite of software, AMTI force plates readily integrate with all major motion capture systems.

- Available Force Plate Sizes:**  
15 cm to 1.2m, square and rectangular shapes
- Available Filler-plate sizes:**  
1/4, 1/2, full, with respect to the size of the working plate
- Available Force Measuring Capacity:**  
5 N to 18,000 N



Our patented technology meets the new ASTM F3109-16 standard for performance verification of multi-axis force platforms.

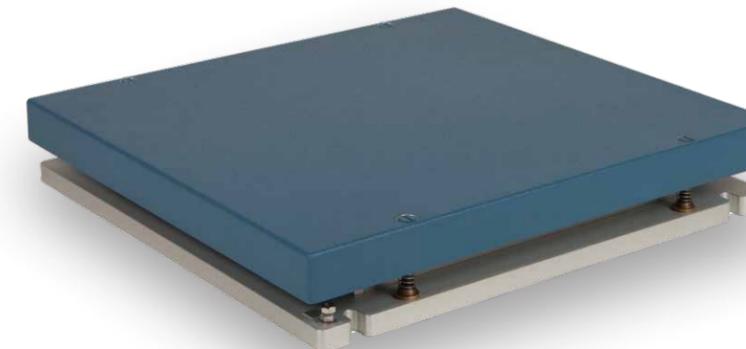
# OPTIMA TECHNOLOGY

AMTI OPTIMA-HPS and OPTIMA-BMS platforms are raising the bar for force plate performance. Our patented OPTIMA technology makes OPTIMA platforms the only force plates to meet the ASTM F3109-16 calibration standard. This represents an unprecedented advancement for gait and biomechanical force measurement systems (U.S. patent number 9,459,173.)

## OPTIMA-HPS (High Performance Series)

The MOST ACCURATE force plate available. Period.

OPTIMA-HPS force plates feature extreme accuracy. AMTI has established our OPTIMA calibration as a best-in-industry process, making OPTIMA-HPS force plates up to **100x more accurate** over the entire working surface than leading competitors.



HPS464508HF

OPTIMA-HPS SPECIFICATIONS*	
CENTER OF PRESSURE (COP) ERROR, TYPICAL	<0.2 mm
CROSSTALK, % APPLIED LOAD, TYPICAL	±0.05%
MEASUREMENT ACCURACY, % APPLIED LOAD, TYPICAL	±0.10%

\*minimum 50 lbs

AVAILABLE OPTIMA-HPS MODELS			
Model Number	Dimensions (WxLxH)	Capacities Available	High Frequency Design
HPS400600	400 mm x 600 mm x 83 mm	4448, 8896 N	
HPS400600HF	400 mm x 600 mm x 83 mm	4448, 8896 N	✓
HPS464508	464 mm x 508 mm x 83 mm	4448, 8896 N	
HPS464508HF	464 mm x 508 mm x 83 mm	4448, 8896 N	✓

## OPTIMA-BMS (Bio-Measurement Series)

OPTIMA technology in the most affordable package



BMS6001200

The OPTIMA-BMS line expands AMTI's patented OPTIMA calibration to our large area force platforms. The result is a force plate that is easily more accurate - right to the edges - than any of our competitors systems and second only to the High Performance Series (HPS).

OPTIMA-BMS SPECIFICATIONS*	
CENTER OF PRESSURE (COP) ERROR, TYPICAL	<0.5 mm
CROSSTALK, % APPLIED LOAD, TYPICAL	±0.2%
MEASUREMENT ACCURACY, % APPLIED LOAD, TYPICAL	±0.5%

\*minimum applied load: 50 lbs

AVAILABLE OPTIMA-BMS MODELS			
Model Number	Dimensions (WxLxH)	Capacities Available	Composite Top Design
BMS400600	400 mm x 600 mm x 83 mm	4448, 8896 N	
BMS400600HF	400 mm x 600 mm x 83 mm	4448, 8896 N	✓
BMS464508	464 mm x 508 mm x 83 mm	4448, 8896 N	
BMS464508HF	464 mm x 508 mm x 83 mm	4448, 8896 N	✓
BMS600600	600 mm x 600 mm x 102 mm	4448, 8896 N	✓
BMS600900	600 mm x 900 mm x 102 mm	4448, 8896 N	✓
BMS6001200	600 mm x 1200 mm x 102 mm	4448, 8896 N	✓
BMS900900	900 mm x 900 mm x 102 mm	4448, 8896 N	✓

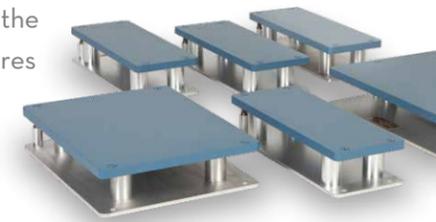
## MODULAR RAIL SYSTEM

### Modular Rails

AMTI's through-top mounted force plates can be paired with our extensible modular rail system, giving your lab maximum flexibility for experimental setup and the option for future lab growth.

### Filler Plates

Reorganize your platforms with AMTI's filler plates. Quarter, half, and full length filler plates accommodate the spatiotemporal gait measures of different populations.



400600 Filler Plates



400600 Modular Rail System

Easily rearrange your force plates for maximum versatility.

## SIGNAL CONDITIONERS

### Amplifiers



#### OPT-SC

The OPTIMA signal conditioner works exclusively with OPTIMA-HPS and OPTIMA-BMS force plates and precision calibration files to provide levels of accuracy never before seen in force plate systems.

#### GEN-5

The Gen 5 signal conditioner combines with our Special Performance Series (SPS) force plates and multi-axis load cells to provide industry-leading performance and innovative features in an easy-to-use and cost-effective package.



## PORTABLE FORCE PLATES



AVAILABLE PORTABLE MODELS					
Model Number	Balance	Gait	Jump/ Weightlifting	Dimensions (WxLxH)	Capacity
AccuSway-O	✓			502 mm x 502 mm x 45 mm	1112 N
AccuGait-O	✓	✓		502 mm x 502 mm x 45 mm	1334 N
AccuPower-O			✓	1016 mm x 762 mm x 125 mm	8896 N
HE6x6	✓*	✓*	✓*	152 mm x 152 mm x 29 mm	4 N, 22 N, 44 N, 71 N, or 89 N

\*small animals

Pair the AccuGait-O with our portable walkway to create a mobile gait lab.



## SPECIALIZED FORCE PLATES

AVAILABLE SPECIALIZED MODELS		
Model Number	Dimensions (WxLxH)	Capacities Available
SPS464508-GT	464 mm x 508 mm x 97 mm	4448, 8896 N
SPS600900-GT	600 mm x 900 mm x 102 mm	4448, 8896 N
SPS12001200	1200 mm X 1200 mm X 108 mm	4448, 8896 N



## INSTRUMENTED EQUIPMENT

### Treadmills

AMTI's compact treadmill has two force platforms in either tandem (front and rear) or side-by-side configurations. All of our treadmills can measure the forces of individual limbs during the double support phase of walking gait.

- Incline option available, 25% grade (14 deg)
- Reversible belts for uphill and downhill testing
- Adjustable speed up to 20km/h
- Digital integration with all major motion capture and EMG software



Tandem



Side-by-Side



### Force-Sensing Stairs

This removable set of 3 steps attaches to force plates that are embedded in the ground. Isolate forces and moments generated on each step, capturing data from both the front and back foot simultaneously.

### Force Sensors

AMTI six-axis force sensors are ideal for research and testing environments due to their high sensitivity, low crosstalk, excellent repeatability, and proven long-term stability. Waterproof models are available.

#### Available sizes:

25 mm to 1.3 m

#### Available Force Measuring Capacity:

5 N to 890 kN



# AMTI WORLDWIDE

AMTI is committed to advancing science in biomechanics, orthopaedics, and joint implants. As the industry leaders we are passionate about producing multi-axis force measuring systems and joint motion simulators with the highest measuring sensitivity, unsurpassed accuracy, robust durability and user-friendly controls.

AMTI holds many patents in the areas of multi-axis force measurement and joint motion simulation. Our newest innovation, the OPTIMA family of force plates, delivers unsurpassed measuring accuracy-up to 100x better than other platforms on the market. All of AMTI's design, manufacturing, and calibration is done in our US located ISO certified facility. All products carry the CE mark.

Biomechanics researchers and clinicians worldwide rely on AMTI to deliver the most accurate force measurement devices.

The best science begins with the best measurements.



ISO 9001 certified  
ISO 13485 certified  
ISO 17025 accredited



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INSTRUMENTS Brochure-rev3

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# COSMED

The Metabolic Company

## Experts in body composition & metabolic assessment worldwide



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Presented by Marco Meucci

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**April 9**



Fueling Performance: Substrate Utilization and Energy Systems During Rest and Exercise

**April 30**



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**June 18**



Fitness Testing as Public Health Strategy: Data That Drives Change

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## Wearable Human Physiology & Biomechanics Monitoring



**30**

**YEARS**  
*of Innovation*

**12K+**

**RESEARCH & CLINICAL**  
Customers

**96**

**SUPPORTED**  
Countries

—  INTEGRATE HUMAN MOVEMENT DATA WITH THE TRIGNO PLATFORM

# Data Driven Performance Metrics

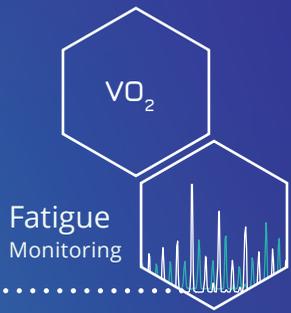


Cardiovascular  
Training



Muscle Effort

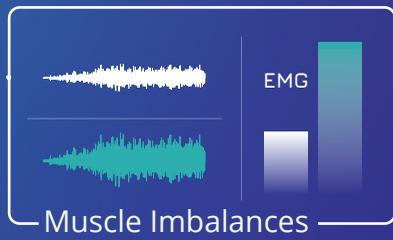




 Technique Analysis



 Virtual Reality Training



 Injury Risk



MAKING DATA WORK FOR YOU

## Validating Sports Technology



### EMG

Activation timing & amplitude assessments

Relevance: Changes in muscle activity promote improved performance and reduced injury risks.



**VO<sub>2</sub>**

Whole body metabolic efficiency

Relevance: Elevated aerobic capacity reduces energy expenditure for same running performance.



**Heart Rate**

Cardiovascular response

Relevance: Altered biomechanics supports efficient cardiovascular responses.



**Muscle Oxygen Saturation**

Fatigue development

Relevance: Tailored designs influence oxygen utilization and reduces local fatigue build up.

# A REVOLUTIONARY



## IT'S YOUR MOVE



Move your patients to the MISHA Knee System, an implantable shock absorber built for when all their other care options have been ineffective. Finally, there's an FDA-authorized breakthrough device so you can treat your knee OA patients who are not ready for arthroplasty. **Move to MISHA at [moximed.com](http://moximed.com)**

  
**MISHA**<sup>®</sup>  
KNEE SYSTEM

## Movement Health and Sciences

Bertec's products have represented a legacy of excellence in biomechanics for over thirty years. We provide solutions founded in accuracy and precision. Our engineering is trusted worldwide to enable a deeper understanding of human movement.



### **Bertec® Fully Instrumented Treadmill v5 (FIT5)**

The Bertec® FIT5 revolutionizes the landscape for performance researchers, providing a solution to streamline gait laboratory space requirements and eliminate the limitations inherent in traditional gait walkways. With its unique design, it delivers superior dynamic characteristics and boasts a high natural frequency, making it the preferred research-grade fully instrumented treadmill.



### **Bertec® Portable Essential and Head Mounted Display (HMD)**

The Bertec® Portable Essential and HMD elevate research with clinical balance and multisensory training using virtual reality. This duo serves as a versatile tool for performance researchers, offering immersive rehabilitation progression and facilitating a variety of assessments and immersive trainings that provide detailed reports for analysis.



### **Bertec® Force Plates**

Bertec® Force Plates are designed for gait and balance research, as well as performance analyses. Our patented strain gauge technology, innovative transducer designs, and quality manufacturing help you capture the highly accurate data needed for your research.