

# health&medical

Breathing Training



Respiratory and Lung Function



Blood Analysis



Treadmill, Bike and Rower Ergometers



Recovery and Rehab



Health Screening & Monitoring



Clinically proven, health, medical, recovery and rehabilitation equipment, consumables and services.



[habdirect.co.uk](http://habdirect.co.uk)

# HaB direct

Welcome to the first edition of the HaB Direct - Health and Medical catalogue. HaB Direct are proud to be celebrating over 28-years in business and would like to thank our customers for their support and for making HaB Direct your preferred supplier of healthcare, medical, human performance, recovery and rehabilitation products.

HaB Direct continues to work closely with leading manufacturers from around the world who share the same philosophy as ourselves; one of providing excellent quality and innovative products that help set industry benchmarks and future trends.

This health and medical equipment catalogue introduces our extensive range of medically certified rehabilitation, health screening and diagnostic equipment, including a vast array of equipment that meets MDD93/42/EEC requirements.



## Keep up to date with all the latest news, innovations, product updates and offers at: [habdirect.co.uk](http://habdirect.co.uk)

HaB Direct has established a reputation for offering NEW, INNOVATIVE, HIGH QUALITY products and services. Within the life of a printed catalogue, a lot can change; however, our website is continually updated to ensure it's a useful resource for all of our clients.

The HaB Direct website offers a wider choice of products from additional approved suppliers than those featured in this catalogue. Therefore, if you cannot find what you require, please check our website. Not only does the website provide a greater range of products but it also allows us to provide more technical information.

Wherever possible, full technical product specifications are listed and supported by 'how to' video links to help you make your buying decisions even simpler. If you need further assistance, HaB Direct's friendly staff are available at the end of the phone to help, or go to our website and request a site visit from one of our technical representatives.



**All your consumables are just a click away**

## HaB Direct, products and services that perform. #ProductsThatPerform

Our valued supply partners include:



## How to order

**Online:** [www.habdirect.co.uk](http://www.habdirect.co.uk)  
**Email:** [sales@habdirect.co.uk](mailto:sales@habdirect.co.uk)  
**Tel:** +44 (0)1926 816100

### Ordering by telephone:

To place an order, simply phone and speak to one of our friendly customer support staff. Our telephone lines are open: Monday to Friday 9:00 - 5:00pm. At all other times, an answerphone service is available. When ordering by phone, it would be helpful to have all the relevant details immediately to hand (e.g. product code, product description and payment details).

### Ordering by post:

HaB Direct  
c/o HaB International Ltd.  
Northfield Road  
Southam  
Warwickshire CV47 0FG  
England, UK

### Visit us:

Our Showroom is open Monday to Friday during office hours. Please call beforehand to confirm an appointment.

### How to pay:

#### Official purchase order

Official purchase orders are accepted from establishments such as hospital trusts, local authorities, education and government bodies, approved accounts etc. Purchase orders must be posted or emailed with the order number printed clearly together with the name, delivery address and department of the person ordering. All purchase orders must hold the signature of an approved authoriser.

#### Cheque

Please make cheques payable to:  
HaB International Ltd.

#### Credit card

We accept these major credit cards.



For information relating to product pricing, delivery, international orders, shipping, leasing and hire purchase, please visit [habdirect.co.uk](http://habdirect.co.uk).

**Go online  
to see if you are  
eligible for  
"Special Pricing"**



## Contents

### Breathing Training

#### SECTION 1 - Page 3-8

Breathing training is becoming increasingly important and necessary within the medical sector; whether pre- or post-operative, or as a preventative measure for various health and medical conditions. POWERbreathe RMT/IMT devices are clinically proven, drug-free, simple and effective to use.

### Respiratory and Lung Function

#### SECTION 2 - Page 9-12

The most up-to-date respiratory technology, including new products from the unrivalled Ganshorn Medizin range, together with basic lung function testing equipment from major brands such as Omron and Clement Clarke. HaB Direct provides market leading products for use within clinical and home care environments.

### Blood Analysis

#### SECTION 3 - Page 13-18

EKF Diagnostics, Biosen, Quo-Lab, Lactate Scout, Lactate Pro 2, Accutrend, Osmocheck and Reflotron brands are available from HaB Direct, providing you with a comprehensive selection from market leading brands worldwide.

### Treadmill, Bike and Rower Ergometers

#### SECTION 4 - Page 19-28

HaB Direct are the Exclusive Distributors (UK and Ireland) for h/p/cosmos treadmills and Monark Exercise AB bike ergometers. Both brands offer innovative technology and exceptional clinically proven performance for health and medical related applications and solutions, with MDD 93/42/EEC certification for peace of mind.

### Recovery and Rehabilitation

#### SECTION 5 - Page 29-34

CET CryoSpa ice baths aid rehab and recovery. Zebris force distribution platforms and motion gait analysis technology offer even more possibilities in rehab and sports medicine.

### Health Screening & Monitoring

#### SECTION 6 - Page 35-42

HaB Direct is your 'one-stop-shop' for all your health screening and monitoring needs. Products include body composition analysers, blood pressure monitors, strength and range of movement measurement devices. HaB Essentials offer 'every day' equipment at value prices.



## Why HaB Direct?

HaB Direct has over 28 years of experience delivering “Best in Class” products & services, supported by “World Class” after sales customer support in the UK and internationally.

We have selected the latest “benchmark” innovations to launch this 1st edition catalogue, focused specifically on our growing health and medical customer base. HaB Direct presents a selection of high quality, clinically proven equipment,

consumables and services within the respiratory, cardiovascular, ICU / CCC, physiotherapy and sports medicine, human performance, fitness testing, health screening and assessment sectors.

## HaB Direct has selected the latest innovations



### New treadmill from Monark

Entry-level, medically certified treadmill, with a low access height, making it perfect for rehabilitation facilities.



Extended Range

### FDM-T

Pressure distribution integrated treadmills offer market-leading gait analysis rehabilitation treadmills.



### Quo-Test

EKF Diagnostic's Quo-Test, designed for easy and reliable HbA1c measurements to detect and manage diabetes.



The world's first handheld device to incorporate Inspiratory Muscle Training (IMT) and Maximum Inspiratory Pressure (MIP) test, in one device. The POWERbreathe KH2 including Breathe-Link Medic software is increasingly becoming a vital tool on a number of different wards, including Intensive Care (ICU) and Respiratory Physiotherapy.



### Experience, knowledge and ISO 9001:2015 accreditation

HaB Direct is one of the very few companies within its field to have ISO accreditation (something held for nearly 20 years). This is often a pre-requisite of professional, institutional and commercial clients to ensure equipment providers' working practices and standards meet the high expectations expected by ISO.



### Fully trained technical service support engineers

HaB Direct pride ourselves on going the extra mile. We have a dedicated service and support team; all trained by the suppliers of our world-leading products.

We offer unrivalled after sales care and can meticulously plan even the most challenging of installations, drawing on many years of experience to ensure that there are no hidden surprises.





Section

1



**POWER<sup>®</sup>  
breathe**  
the world's no.1 breathing trainer™

### Respiratory Muscle Training (RMT) / Inspiratory Muscle Training (IMT)

In much the same way you use weights to increase arm muscle strength, POWERbreathe RMT/IMT devices strengthen breathing muscles by creating a resistance against the in-breath.

Training in this way means that even patients who cannot walk can increase the strength of their breathing muscles, improving general breathing during periods of recovery and improving quality of life in patients with the symptoms of diseases such as COPD, asthma and cystic fibrosis.



### **Medic**

**POWERbreathe Medic**  
Available to patients  
on prescription  
since 2006

NHS DRUG  
TARIFF LISTING PART  
IXA – APPLIANCES  
Inspiratory pressure  
threshold loading device  
PIP CODE:  
232-1040

# POWER breathe KH2

WITH **BREATHELINK™**  
MEDIC • LIVE FEEDBACK SOFTWARE

## Designed and developed for healthcare professionals

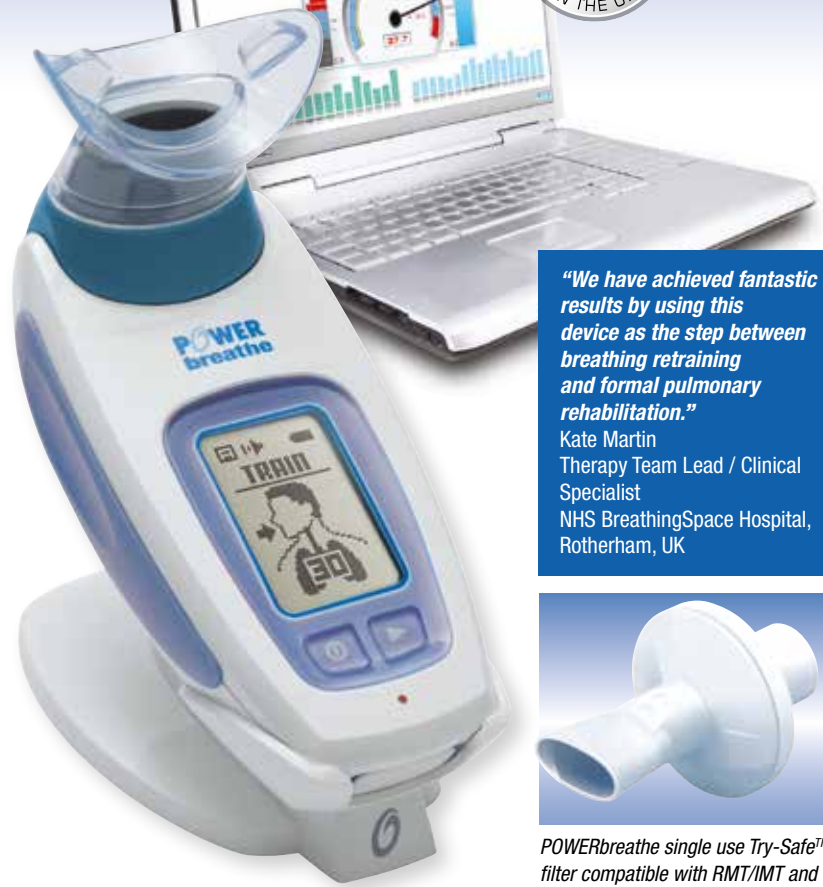
The POWERbreathe KH2 includes several innovative features including MIP, PIF and S-Index test functions, allowing practitioners to collect patients' training data via the portable handheld KH2 device.

The advanced KH2 model allows the results to be viewed in real-time using the revolutionary Breathe-Link Medic software.

Development of the POWERbreathe KH-Series advanced electronically controlled valve allows average load, power and inhaled volume to be viewed in real-time.

The POWERbreathe KH2 is the ultimate device for testing, monitoring and analysing any Respiratory Muscle Training programme.

**Clinically Proven Gold Standard Device**



*"We have achieved fantastic results by using this device as the step between breathing retraining and formal pulmonary rehabilitation."*

Kate Martin  
Therapy Team Lead / Clinical Specialist  
NHS BreathingSpace Hospital, Rotherham, UK



POWERbreathe single use Try-Safe™ filter compatible with RMT/IMT and Shaker Medic Plus/Deluxe devices.

Uses Unique 'Auto Optimising' RMT/IMT Technology which adapts the training resistance to the user's personal inspiratory muscle capabilities

Includes MIP, PIF and S-Index test functions to collect patient data for baseline and outcome measures

### Advanced Smart Breathing Training Features Include:

- Auto IMT
- Training Intensity
- Training Guidance
- Endurance Programme
- Training Results
- Breathing Energy
- Strength Index
- MIP PIF
- Washable Valve
- Rechargeable
- Multi-user Filter Option
- Breathe-Link Software
- Breathe-Link Pro-View
- Breathe-Link Custom
- Breathe-Link Patient Data

## Train, test, record and analyse

### Test Modes

#### MIP Test with Breathe-Link Medic Software

**Maximum Inspiratory Pressure (MIP) test.** A test that measures the strength of the muscles used in breathing.

Real-time / live feedback provides healthcare professionals with detailed analysis of each breath to help respiratory and pulmonary rehabilitation assessment.

#### S-Index / PIF Test Live Session

**Strength Index** is a measure of the patient's inspiratory muscle strength, based on the relationship between pressure and flow.

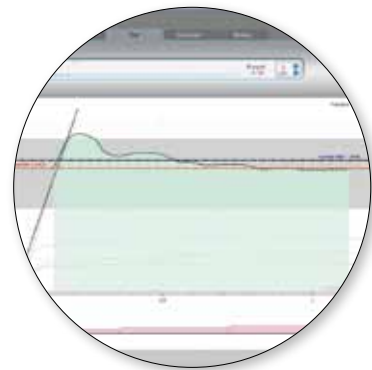
PIF (Flow) is a measure of the maximum rate at which the patient can inhale air into their lungs.

This measurement is based upon the maximum measured flow rate during the test breath, which gives an indication of the speed at which the patient's inspiratory muscles contract.

**New feature**

To ensure accurate and repeatable MIP results, the POWERbreathe KH2 Breathe-Link Medic software has introduced the QC MIP mechanism.

The maximum 1 second average value of 3 manoeuvres that vary by less than 20% is recorded.

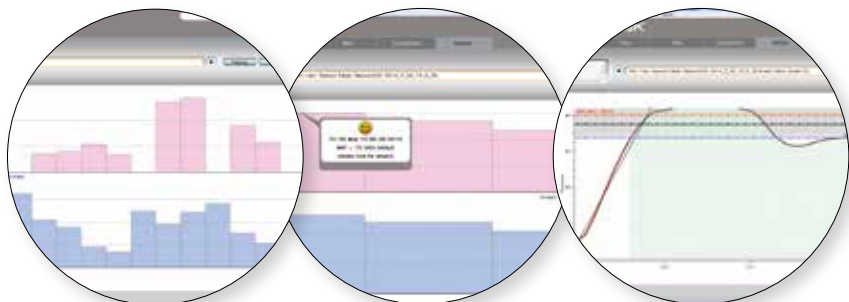




## Test Results

### MIP Test Results with Breathe-Link Medic Software

Multi-level analytic review system to monitor patient progress and help assess respiratory muscle conditions.



#### Results Level 1

Session by session graphical view of historical tests.

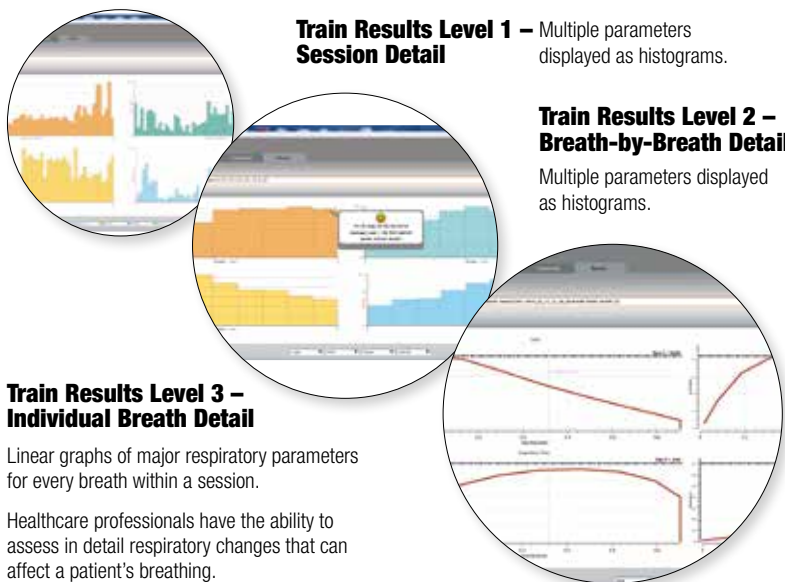
#### Results Level 2

Breath-by-breath detail of tests performed is recorded, allowing healthcare professionals the ability to identify trends and improvements.

#### Results Level 3

Individual breaths in a session can be assessed.

## Training Results



#### Train Results Level 1 – Multiple parameters displayed as histograms.

#### Train Results Level 2 – Breath-by-Breath Detail

Multiple parameters displayed as histograms.

#### Train Results Level 3 – Individual Breath Detail

Linear graphs of major respiratory parameters for every breath within a session.

Healthcare professionals have the ability to assess in detail respiratory changes that can affect a patient's breathing.

## Patient Data

### Breathe-Link Medic Patient Lists

Integrated patient view showing all registered patients on the Breathe-Link Medic software. The Patient View master control panel allows you to easily access and navigate patients RMT/IMT training data.

ID	First Name	Surname	DOB	Height (ft)	Weight (kg)	Gender	Origin	Referred By	Smoker	Uddis	Age	IMT	RMT
1	John	Smith	1975-01-15	5'10"	75	Male	Wales	Smith	No	Med	7	122	12000
2	Jane	Johnson	1980-03-22	5'05"	60	Female	Wales	Johnson	No	Med	7	100	11000
3	Mark	Williams	1978-05-10	6'00"	85	Male	Wales	Williams	No	Med	7	130	13000
4	Emily	Davies	1985-08-05	5'08"	55	Female	Wales	Davies	No	Med	7	90	10000
5	David	Evans	1972-11-20	5'12"	70	Male	Wales	Evans	No	Med	7	110	11500
6	Sarah	Green	1982-02-18	5'03"	50	Female	Wales	Green	No	Med	7	85	9500
7	Michael	White	1977-06-01	5'11"	72	Male	Wales	White	No	Med	7	115	12000
8	Anna	Black	1988-09-12	5'07"	52	Female	Wales	Black	No	Med	7	95	10500
9	James	Red	1974-04-08	5'13"	78	Male	Wales	Red	No	Med	7	125	13000
10	Michelle	Blue	1983-07-25	5'09"	58	Female	Wales	Blue	No	Med	7	105	11000
11	Robert	Brown	1971-10-03	5'14"	80	Male	Wales	Brown	No	Med	7	135	14000
12	Lucy	Gold	1986-01-17	5'06"	53	Female	Wales	Gold	No	Med	7	98	10800
13	Christopher	Silver	1976-05-29	5'11"	74	Male	Wales	Silver	No	Med	7	120	12500
14	Victoria	Grey	1984-03-14	5'04"	51	Female	Wales	Grey	No	Med	7	92	10200
15	Andrew	Black	1973-08-27	5'10"	76	Male	Wales	Black	No	Med	7	128	13500
16	Olivia	White	1987-11-09	5'08"	56	Female	Wales	White	No	Med	7	108	11500
17	William	Red	1975-02-21	5'12"	79	Male	Wales	Red	No	Med	7	132	14000
18	Isabella	Blue	1989-06-04	5'05"	54	Female	Wales	Blue	No	Med	7	96	10600

## Live Training Modes

**Graphical view** of major breathing parameters to easily assess and encourage patient training performance. The goal is to maximise training performance against personal bests. Proven to increase user compliance of training regime.



**Professional view** of major breathing parameters to easily assess and encourage the patient's training performance.

Analyse a training session breath-by-breath in real-time.

Major breath parameters are plotted in real-time which include Power, Energy, Pressure and Flow.



## Custom Training

### Simple click and drag system

Breathe-Link Medic Software offers a simple, easy-to-use, interactive environment which allows you to adjust the setting for each breath by simply clicking and dragging the bars on screen.

Allows professionals to create personalised training sessions to optimise patient training.

Flexibility to change the patient's training load for each individual breath.





KH1

## For healthcare professionals

The POWERbreathe KH1 is a revolutionary respiratory / inspiratory muscle training device designed specifically for the healthcare professional. The application of POWERbreathe RMT/IMT within healthcare and medical markets is now widely accepted and is used in such patient groups as COPD, Asthma, ICU and Cardiac.

By using the Maximum Inspiratory Pressure (MIP) test incorporated into the KH1, the patient can undertake a baseline measurement and train according to the optimum protocol for their condition and re-measure the MIP to quantify the improvement.



### Advanced Smart Breathing Training Features Include:



For a full description of the KH-Series Smart Breathing Training features visit [powerbreathe.com](http://powerbreathe.com)



### POWERbreathe KH1 features:

- Manually adjustable variable training load (3-200cmH<sub>2</sub>O)
- Advanced electronic variable load training
- Single breath test MIP
- Single breath test (PIF/Flow Test)
- Test results (PIF/Flow Test and MIP)
- Current training results (Inhaled Volume, Power, Load)
- Current training results (T-Index %)
- Breathing pacing guidance (audible beep)
- Interchangeable valve heads for multiple users
- Single use TrySafe™ filter option available for testing
- Compatible with oxygen adapter and face mask
- Ergonomic design for adult and paediatric use

### Parameters displayed include:

- Maximal Inspiratory Pressure (cmH<sub>2</sub>O), highest 1 second average
- Peak Inspiratory Flow (L/s)
- Training Load (cmH<sub>2</sub>O)
- Average Power (Watts)
- Average Inhaled Volume (L)
- T-Index (training intensity index)

KHP2

## Advanced technology to ensure patients reach their full potential

Following professional consultation using the POWERbreathe KH1 or KH2, whether it is for rehabilitation, pre-operative conditioning or symptom relief of lung function limiting diseases and conditions, the patient can then use the POWERbreathe KHP2 model at home, as part of their on-going personalised treatment plan.

Clinical research has shown high patient motivation due to the on-screen feedback, which has resulted in high compliance (90%+) and significantly improved lung muscle strength and stamina.

Correspondingly, healthcare professionals are able to review patient progress by tracking up to 36 training sessions which the KHP2 can store.

### Advanced Smart Breathing Training Features Include:



For a full description of the KH-Series Smart Breathing Training features visit [powerbreathe.com](http://powerbreathe.com)



The electronic, variable, tapered flow valve ensures the maximum training benefit.

The clinically proven POWERbreathe KHP2 is cost-effective, easy-to-use, easy to clean and compliance plus training improvements can be easily monitored.

### Technology features:

- Auto-optimising training technology
- Training intensity selector
- Training guidance system
- Training results display



Visit our website for information on POWERbreathe accessories

# Medic PLUS+

## New variable load range starting from 1-78cmH<sub>2</sub>O

The POWERbreathe Medic Plus is the second generation of POWERbreathe Medic RMT/IMT devices and offers a 65% improvement in airflow dynamics compared to the first generation POWERbreathe Medic.

POWERbreathe Medic Plus is scientifically proven to strengthen the respiratory muscles, reducing breathlessness, improving exercise tolerance and enhancing quality of life in a wide range of patients.

POWERbreathe RMT/IMT devices offer evidence-based, drug-free treatment for patients with a variety of medical conditions including COPD, heart failure, asthma, rehabilitation following thoracic surgery, ventilator weaning, cystic fibrosis and neuromuscular disease.

The very affordable POWERbreathe Medic Plus offers the lowest entry-level load of any threshold device currently available.



The 1cmH<sub>2</sub>O entry load allows patients who are in ICU or who have severe breathing difficulties, to begin training their respiratory muscles which otherwise would not be trained.

Featuring variable load settings from 1-78cmH<sub>2</sub>O, POWERbreathe Medic Plus, offers in one device a drug free RMT/IMT solution that should satisfy most patient groups needs, at a very low cost to the patient or healthcare provider e.g. NHS in the UK.

POWERbreathe Medic Plus incorporates the latest developments in mechanical design technology, together with a comfortable ergonomic design, delivering:

- 65% improvement in airflow dynamics
- Easy to adjust resistance
- Easy to read resistance gauge
- Lower entry load to suit e.g. COPD users
- Variable load settings 0-10 levels
- Variable load range 1-78cmH<sub>2</sub>O
- Anti-scratch materials
- Simple disassembly for cleaning
- Soft touch nose clip
- New mouthpiece design is suitable for ages 7 and upwards

# Medic

## Available for prescription in the UK since 2006

The POWERbreathe Medic RMT/IMT device was approved for prescription in March 2006 after being rigorously assessed by the NHS Prescription Pricing Authority in the UK, for clinical evidence, patient compliance and financial savings.

POWERbreathe Medic is also available from the NHS Supply Chain Respiratory Contract.

POWERbreathe Medic RMT/IMT has been taken up by medical professionals as an adjunct to pharmacological treatments.

Used both as a standalone therapy or in conjunction with pulmonary rehabilitation, POWERbreathe Medic training can be completed with or without supervision.

### Proven benefits of Inspiratory Muscle Training

- Increases Inspiratory muscle strength by up to 27%
- Reduces breathlessness by up to 36%
- Improves quality of life by up to 21%
- Improves exercise tolerance by up to 28%
- GP visits reduced by up to 23%



### COPD

In their 2005 study of the benefits of a 12 month programme of POWERbreathe IMT training, Beckerman et al. observed significant reductions in the use of healthcare resources. POWERbreathe IMT reduced hospital bed days by 29% and GP consultations by 23% compared with placebo.

### Asthma

Weiner et al. observed an 86% reduction in hospitalisations/emergency room visits following inspiratory muscle training in moderate/severe asthmatics (from 1.4 to 0.2 per 3 months per patient). In three separate studies, Weiner et al. observed an average 51% reduction in  $\beta_2$ -agonist consumption (from 3.9 to 1.6 puffs per day) after inspiratory muscle training, and in one study, corticosteroid use decreased ~80%.

NHS DRUG  
TARIFF LISTING PART  
IXA – APPLIANCES  
Inspiratory pressure  
threshold loading device  
PIP CODE:  
232-1040

## Shaker Medic PLUS+

### for hospitals / clinics

#### Simple relief from excessive mucus and its associated problems

- Autoclavable to 134°C (273°F), multi-user, reuseable, easy-to-use and affordable
- Improved airflow for higher intensity vibrations, produces positive expiratory pressure (PEP) to open the airways
- Increases expectoration, improves lung function and reduces dyspnoea
- For conditions such as COPD, cystic fibrosis, bronchiectasis and bronchitis
- Two designs of user-friendly mouthpieces included to assist older and younger patients

**NEW**  
Autoclavable  
multi-user  
model



Two  
designs of  
patient friendly  
mouthpieces  
included



## Shaker classic

#### Personal mucus clearance device

- The original Shaker device offers simple and convenient relief from excessive mucus
- Can be used for chronic conditions such as COPD, asthma, emphysema and acute problems like chesty coughs, flu and bronchitis
- Affordable, easy-to-use single user model which can be used at home or away from home



Visit our  
website for  
information on  
POWERbreathe  
accessories



Popular with  
smoking cessation,  
hyperactive /ADHD and better  
breathing population groups

## Shaker deluxe

#### Personal mucus clearance device

- Respiratory device for mobilising pulmonary secretions such as mucus and catarrh
- Can be used for chronic conditions such as COPD, asthma, emphysema and acute problems like chesty coughs, flu and bronchitis
- Uses the latest innovative design technology
- Produces vibrations in the chest cavity to 'shake' stubborn mucus loose
- Aids expectoration, increases lung efficiency, helping to reduce breathlessness and fatigue
- Two designs of user-friendly mouthpieces included to assist older and younger users
- Affordable, easy-to-use single user model which can be used at home or away from home

## RESPIRON

Incentive Spirometry

#### Simple therapy for breathing difficulties

- Exercises and strengthens the breathing muscles
- Control and adjust exercise difficulty
- Encourages deep breathing, which can aid in relieving excess mucus
- Helps prevent bronchial and pulmonary infections
- Easy-to-use and clean
- Low cost



## flow-ball

#### Simple, fun and educational

- Exercises the breathing muscles
- Increases control and stability of the exhaled breath
- Easy-to-use, effective and great fun
- Popular with children and adults
- Beneficial for smoking cessation education
- Low cost
- Available in 2 colours – blue and yellow





**GANSHORN**  
MEDIZIN ELECTRONIC

## High Precision Pulmonary Function Testing

HaB Direct has been delivering world-class respiratory and metabolic equipment for over 28-years.

During this time technology has moved on and developed significantly, resulting in lung function, CPET and inspiratory muscle training (IMT) devices that are highly advanced pieces of technology, capable of measuring a variety of parameters that are used routinely within GP clinics, hospitals and occupational health departments as part of everyday best practice.

Ganshorn develop and manufacture high quality, easy-to-use measurement equipment for the entire spectrum of respiratory diagnostics.

Ganshorn's spirometer SpiroScout, based on the calibration free, high accuracy, ultrasonic flowsensor, opens new horizons for respiratory diagnostics with simultaneous flow, temperature and gas measurements.

HaB Direct, in co-operation with Ganshorn, offer state of the art solutions for spirometry, body plethysmography, ergospirometry, diffusion testing and more.



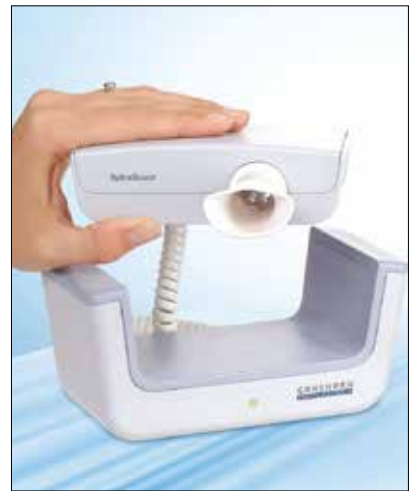
**GANSHORN**  
MEDIZIN ELECTRONIC

### Ganshorn PowerCube® Body+

The Ganshorn PowerCube® Body+ is the new standard in body plethysmography. It represents 40-years' experience in developing and manufacturing state-of-the-art lung function diagnostic equipment. The PowerCube Body+ is the first body cabin on the market that uses ultrasonic flow measurement as standard and is calibration-free.

- Ultrasonic flow measurement as standard
- Calibration free
- Easily adjustable patient interface
- Offers a choice of either a broad bench seat (max. 160 kg) or a height-adjustable swivel chair (max. 120 kg)
- Features automatic and simultaneous calibration of both the cabin and the mouth pressure at three different frequencies
- Offers a BodyLiveCal to test transposition of the great vessels (TGV)
- Ceiling lighting illuminates in different colours, including white
- LEDs indicate the locked state of the door

Options: Single breath diffusion real-time, bronchial provocation, N2 washout, FRC rebreathing, capnometry, emphysema test and more.



### Ganshorn PowerCube®-Ergo

The Ganshorn PowerCube®-Ergo is a versatile system, perfect for cardiopulmonary diagnostics and ergospirometry. The PowerCube-Ergo is the ideal system for the measurement and evaluation of breathing gases, oxygen/carbon dioxide, under load.

The advantages of the Ganshorn PowerCube-Ergo include:

- **Maintenance free** - contains an ultrafast and long-life CO<sub>2</sub> sensor
- **Do-it-yourself** - the O<sub>2</sub> sensor can be changed quickly and easily and does not require a certified technician
- **Gold standard** - the system is in full compliance with ATS and ERS recommendations
- **Flexibility**- analysis of the results can be set to your preferences; whether using a 9-panel Wassermann diagram or an individual set of graphs

The pneumotachograph with variable orifice is lightweight and completely unsusceptible to moisture, whilst the quick, highly stable gas analysers provide real breath-by-breath measurements. Furthermore, the user interface can be freely configured for measurement and interpretation.

- Standard system with Spirometry, Flow-Volume, MVV as well as "ErgoCheck" software for result validation
- Further options are e.g. evaluation software LFSport, SpO<sub>2</sub>, Oscillatory resistance, ergometry system etc.
- Simultaneous display of the 9-panel-diagram according to Wassermann – also on-screen during the measurement
- Automated determination of the anaerobic threshold by set method (V-Slope, CO<sub>2</sub>-excess, EQO<sub>2</sub> Minimum, RQ=1) or manually in the diagrams

Now using LFX



### Ganshorn SpiroScout

A spirometry test is the first step to a fast and secure diagnosis of asthma, COPD or other pulmonary disease and the Ganshorn SpiroScout is a complete lung function laboratory. Ganshorn's modern ultrasound-hardware and latest Windows based programming techniques enable the SpiroScout to fulfil requirements that are needed to offer a user-friendly spirometry solution.

Its use of an 'Ultra-sonic flow sensor' enables the exact determination of all spirometric parameters. As the first of its kind, the SpiroScout simultaneously measures flow and gas density, providing all the necessary information about the volume and gas exchange from one single measurement.

- High precision spirometry due to direct flow measurement
- Real-time BTPS correction, drift-free, high accuracy
- Different options available such as rhinomanometry, oscillatory resistance, capnometry, emphysema test, dead space analysis
- No volume calibration and no warm-up time necessary
- Perfectly hygienic concept optimising workflow and patient safety
- No perceptible resistance and more comfort for the patients



**Schiller ECG**  
also available



**Calibration free**



*All nebulisers are devices that convert liquid medicine into aerosol droplets that can be easily inhaled through a mouthpiece or mask. The difference is in the technique that is used to convert the medicine into aerosol droplets. A compressor nebuliser uses compressed air to create the aerosol.*

A mesh nebuliser uses a vibrating element oscillating at high frequency to push medication through fine holes in the mesh, generating aerosol droplets. This technique allows the nebuliser to be very compact and silent. It makes them easy-to-use on the go, whenever and wherever required.

OMRON offers a wide range of nebulisers to fit every need and every budget. With each breath, these reliable, portable and discrete nebulisers deliver efficient drug deposition, providing great results.

### Omron MicroAIR U100

The new OMRON MicroAIR U100 is a small, portable nebuliser that enables patients to take their medication wherever and whenever they need it. The unique mesh technology makes it more efficient and more comfortable to use than traditional nebulisers. The silent operation enables discreet usage without disturbing others. The unique design of the MicroAIR U100 allows the patient to use it in any position. Even while lying down, making it more comfortable for smaller children.

MicroAIR U100 is designed to treat respiratory conditions of the lower airways, like bronchitis, bronchiolitis, COPD and asthma.



### Omron UltraAIR Pro U780

Hygienic and professional, this ultrasonic nebuliser OMRON UltraAIR Pro U780 has a high aerosol output, making it ideal for the medical treatment of respiratory diseases like asthma, COPD, cystic fibrosis or emphysema.

This device is easy to clean and the removable water tank can be completely immersed in a disinfectant liquid. A simple solution to a difficult cleaning concern. It also operates completely silently and offers easy touch controls that allow for adjusting the nebulisation volume and the airflow. The backlight display and easy-to-read indicators means operating this device is remarkably simple.



### Omron CompAir™ Pro NE-C900

**The professional, easy to clean compressor nebuliser**

The OMRON CompAir™ Pro NE-C900 is a professional compressor nebuliser for the treatment of patients with lower airways respiratory diseases like asthma, COPD, cystic fibrosis or emphysema.

It is built to the highest specifications to provide complete patient care. It produces a high nebulisation rate thanks to its durable,



high-output compressor, so that your patients receive more medication where they need it most.

NE-C900 has an easy to clean, and easy to assemble and disassemble design, thanks to its unique two-part OMRON Smart Structure™ nebuliser kit, giving you more time for direct patient care.

In addition to that, it comes with a convenient handle for carrying it safely if needed.

### Omron CompAIR Basic™ NE-C803

**The light and quiet entry-level nebuliser**

The OMRON CompAIR Basic™ NE-C803 is the lightest and quietest Omron compressor nebuliser for the treatment of lower airways respiratory diseases like light asthma. This nebuliser provides an excellent value for money for consumers looking for a basic compressor nebuliser.



**More details on Omron and other Nebulisers available online**



## Disposable Mouthpieces for peak flow meters

Disposable cardboard mouthpieces for use with our Mini Peak Flow Meters and most Micro Spirometers. Available in boxes of 100 or the more economical boxes of 500.

**Best Seller**



## One-Way Valve Adult Mouthpieces

Single Use - Diameter 30mm. Suitable for use with most spirometers including the MicroMedical and Vitalograph range and Peak Flow Meters. Box of 200



## piCO Smokerlyzer

Low cost and visually motivational, the piCO is a leader in a new generation of breath CO monitors. The monitor has user profiles for adult smokers, young smokers and pregnant women, as well as the ability to easily create custom profiles when used alongside CO data PC software, making it a favourite with group smoking cessation clinics.



## D-Piece and Disposable Steribreath Mouthpieces

Mouthpieces fit the piCO Smokerlyzer and Micro+ (see website for details). Main benefits include the unit being further away from the face so patients can see the unit clearly and the practitioner can replace and dispose of the mouthpiece without handling it directly.



## Mini Wright Peak Flow Meter

Popular, entry level peak flow indicator. The Mini Wright Peak Flow is the industry standard and has a clear, easy-to-read scale which measures from 60 - 850 litres per minute (standard range). It's also lightweight, compact, latex free and can be sterilised. Supplied with one sterilisable mouthpiece and instruction manual.



## Pinnacle Peak Flow Meter

Measuring from 60 – 900 litres per Minute. The Pinnacle Peak Flow Meter is EEC Compliant and CE Marked and Certified.



**Budget Option**

## eMini-Wright Digital Peak Flow Meter

A small, discreet electronic peak flow meter that accurately measures and stores peak flow data. Has on-screen notification of poor effort and non-reproducible results to improve data quality. An electronic zoning system also helps patients to understand their asthma. Available as a downloadable model (software and cable sold separately).

### Options available:

eMini-Wright Unit  
eMini-Wright Downloadable Unit  
eMini-Wright Software and Cable  
eMini-Wright Kit (includes Downloadable Unit, Software and Cable)



## Spirobank II

The new smarter spirometer standard for the technology age.

4 versions available:

- Spirobank II Smart - with oximetry option for iPad
- Spirobank II Basic - accurate, simplified spirometer
- Spirobank II Advanced - spirometer with oximetry option
- Spirobank II Advanced Plus - spirometer with standard oximeter



## Metabolic Simulator with Mass Flow Controller

Ideally, the respiratory and metabolic variables (TV, RR, VE, VO<sub>2</sub>, VCO<sub>2</sub>) generated by the simulator should be indistinguishable from those produced by humans. The simulator produces and controls those variables very precisely. Consequently, one can test any breath-by-breath or mixing chamber metabolic measurement system with high accuracy and full confidence.

Metabolic calibration uses the principle of mass preservation to create known VO<sub>2</sub> and VCO<sub>2</sub>. The principle of mass preservation dictates that the chosen mass flow of CO<sub>2</sub> and O<sub>2</sub> remains unchanged regardless of the ventilatory dilution (i.e. the minute ventilation that delivers it into the system under calibration).

This top of the line metabolic calibration gas titration device consists of a mass flow controller capable of delivering any set point flow of this gas (~21%CO<sub>2</sub>, 79%N<sub>2</sub>) within a range of 0 - 20 litres/min STPD and a Set Point Module (SPM) which enables selection of desired mass flows.





**EKF Diagnostics are a leading point-of-care medical devices manufacturer**

EKF have a long history in point-of-care testing and central laboratory manufacturing, with a hard earned reputation for ease-of-use, reliability and accuracy.

The EKF range of blood analysis and urine analytical equipment includes kits for testing blood lactate, cholesterol, glucose, HbA1c and haemoglobin. EKF also offer, blood lactate consumables, such as lancets, lactate test strips and blood test strips.

HaB Direct in co-operation with EKF Diagnostics are able to supply and support products and consumables within the following fields:

- Diabetes and HbA1c Analysers
- Haemoglobin Analysers
- Maternal and Women's Health
- Sports Performance
- Clinical Chemistry and Chemistry Reagents
- Contract Fermentation and Life Sciences

In addition, HaB Direct also co-operates with Roche and Arkray point-of-care (POC) and laboratory analysis equipment and consumables.



# EKF Diagnostics

## EKF Diagnostics Biosen range

The Biosen range of blood analysers measure glucose and/or lactate quickly and are used extensively in clinics, laboratories and sports medicine facilities around the world.

Biosen analysers by EKF Diagnostics require minimal maintenance and use chip sensors that have a long life span and are easy to replace. The backlit touch screen allows users to easily navigate the multilingual menu and adjust several of the system's parameters quickly and easily.

Each model in the Biosen range can store up to 1,000 patient results and provides connectivity to PC and printer. All Biosen analysers are supplied with an interface to connect to lab information systems (LIS) and a barcode reader and printer are also available with most configurations.

Biosen C-Line Glucose and Lactate Analysers are available in two configurations:

- C-Line GP+: 5 sample positions
- C-Line Clinic: 20 sample positions

The Biosen C-Line GP+ meets the requirements of sites running predominantly single tests, whilst the Biosen C-Line Clinic is well suited for the analysis of sample series in small to medium size hospital laboratories, professional sports clinics and research institutes.

- Results in 20-25 seconds, with up to 120 samples per hour
- Multilingual touchscreen display with step-by-step instructions
- Just 20 µl blood, plasma or serum sample required when used with EKF pre-filled 'Safe-Lock' reaction tubes (1,000 µl)
- Automatically detects presence of reaction cups
- Chip-sensor system (no electrode membrane cleaning required)
- Enzymatic-amperometric method using chip-sensor technology
- Measuring range: Glucose 0.5–50 mmol/L; Lactate 0.5–40 mmol/L
- Dual channel option: Glucose and/or Lactate results from one sample
- Stores up to 1,000 results
- Barcode option available

The Biosen S-Line glucose and lactate analyser range is available with 63 sample positions, allowing up to 160 results per hour.

- Peace of mind – EKF Diagnostics is a trusted manufacturer and supplier of lactate and glucose analysers globally
- Easy-to-use
- Multilingual touchscreen displays with step-by-step instructions
- Rapid results
- No electrode membrane cleaning required
- Accurate and reliable
- Robust design
- Long sensor life
- PC, network and printer connectivity







### EKF Diagnostics Quo-Test Hb A1c Analyser

EKF Diagnostics' Quo-Test has been designed for easy and reliable HbA1c measurement for the detection and management of diabetes. The Quo-Test HbA1c Analyser is a fully automated haemoglobin A1c analyser that uses patented boronate fluorescence quenching technology to measure glycated haemoglobin from a 4µl sample taken from a finger prick or venous whole blood.

- Sample results are available within four minutes
- Reported in IFCC and DCCT standards (Mono S & JDS reporting are also available)

- Quo-Test HbA1c analysers can store up to 7,000 results
- Results can be downloaded as text files to a PC via the integrated USB interface
- Alternatively, results can be printed using the optional printer which connects via a serial port

Quo-Test's step-by-step instructions are displayed on its clear, multilingual display. Training time is thus kept to a minimum, allowing nurses and clinicians to concentrate on patient care.

### EKF Diagnostics Quo-Lab HbA1c Analyser

The Quo-Lab HbA1c Analyser is a revolution in glycated haemoglobin measurement. This small desktop point-of-care analyser combines market leading accuracy with low cost and ease of use. The device is a semi-automatic point of care device designed specifically to meet the needs of clinics and laboratories in situations where value for money instruments and consumables are a vital part of delivering diabetes care. A simple procedure delivers lab-accurate test results within four minutes (CV < 3% at 7% A1c) from a venous or finger prick blood sample of just 4µl.

- Quo-Lab uses the same boronate affinity methodology used by Quo-Test and is similarly unaffected by Hb variants
- Quo-Lab's step-by-step instructions are displayed on a clear, multilingual display. Training time is thus kept to a minimum, allowing nurses and clinicians to concentrate on patient care
- The Quo-Lab HbA1c Analyser can store up to 7,000 patient results
- Alternatively, results can be downloaded to a PC using a USB cable or printed using the optional printer



## EKF Diagnostics Hemo-Control

EKF Diagnostics Hemo Control is a simple, easy-to-use point-of-care haemoglobin and haematocrit analyser, designed to provide quantitative, lab quality results (CV of <2%) from 25 seconds. The Hemo-Control haemoglobin analyser uses the innovative n.x.t microcuvette technology to deliver a quick and easy sampling procedure that also minimises waste.

The Hemo-Control Manager has been designed to allow users to quickly and securely manage

and analyse test results. The analyser's software allows users to seamlessly link to a PC and then transfer data to an Information Management System.

- Haemoglobin and haematocrit results from one sample available after 25-60 seconds (depending on the concentration)
- Venous, arterial or capillary blood
- Sample volume only 8 or 10 µl depending on cuvette type
- n.x.t. shape microcuvette minimises air bubbles
- Compact in size and weighing just 700g
- No maintenance required - auto self-test
- Integrated rechargeable battery (100 hours)



## EKF Diagnostics DiaSpect Tm

EKF Diagnostics DiaSpect Tm is the world's fastest haemoglobin analyser. DiaSpect Tm delivers laboratory quality results in just one second of the microcuvette being placed into the analyser.

The analyser is palm-sized, making it easily transportable, and because it has no moving parts it can be used in any screening setting in any environment. DiaSpect's 'always-on' technology means that professionals can start to use the device immediately and the rechargeable internal battery, which provides up to 40 days' continuous use, provides the flexibility of not needing a power source for weeks at a time.



- Result within 1-2 seconds
- Photometric method using a broad spectrum
- Operating ambient temperature 10°C to 35°C
- Measuring range: 0 - 25.5 g/dL
- Imprecision (within run): CV <1 %
- Factory calibrated against HiCN reference method according to ICSH
- Sample volume <10 µL
- Shelf life of up to 2.5 years, even after the bag has been opened
- Storage temperature: 0°C to 50°C (-30°C to 70°C up to 24 hours)
- Easy to pick up and handle with gloves
- CE marked
- Manufactured in Germany

**NEW**



### EKF Diagnostics Creamatocrit Plus™

Creatmatocrit Plus™ is the first and only system dedicated to providing a fast, accurate creatmatocrit measure. Creatmatocrit Plus introduces a simple and accurate technique for estimating the lipid concentration and calorific density in mothers' milk. It provides information doctors require and extra peace-of-mind for breastfeeding mothers.

The creatmatocrit technique is especially useful in the neonatal intensive care unit (NICU) to ensure premature infants are receiving the calories they need to thrive. Creatmatocrit Plus™ also guides the separation of foremilk and the high-lipid, high-calorific hindmilk to accelerate weight gain in extremely low birth weight infants.

- Built-in tube reader
- Six place rotor
- Displays creatmatocrit, calories per ounce, kcalories per 100 millilitres, kcalories per litre and fat grams per litre
- Three-minute centrifugation
- Whisper quiet operation
- Small, lightweight
- Eliminates callipers and conversion charts
- Built-in tachometer
- Two-year warranty

**NEW**



### EKF Diagnostics Micro 12 Centrifuge

The Micro 12 centrifuge is perfect for small volume samples, quick spin downs, cell and bacteria separations and various nucleic acid tests. The Micro 12 can also be used to separate DNA due to its maximum spin speed of 14,000 rpm and a maximum relative centrifugal force of 16,000g.

Micro 12 is ideal for use in busy labs where space is at a premium. Features whisper-quiet operation and a compact footprint.

The centrifuge's flexibility means that it can accommodate tubes up to 2mL in diameter, allowing for a range of different applications.

- 18 place fixed angle head
- Safety lid to prevent opening while rotator is spinning
- Brushless motor
- High maximum speed (speed range 1,000 to 14,000rpm / 16,000 x g)
- Unique airflow patterns keep samples cool
- Cold room compatible
- 18 x 1.5/2.0 ml rotor
- Easy-to-use control panel
- Rotor easily removed
- Accepts PCR strips with adaptor
- One-year warranty

**NEW**



### EKF Diagnostics SlidePrep Plus™

The SlidePrep Plus™ is a self-contained, compact, sturdy centrifuge for IVD use. Its primary function is to produce a monolayer of cells onto a glass slide from any fluid suspension under the safest conditions possible. The SlidePrep Plus effectively bypasses the difficulties normally associated with depositions obtained by direct smear or filtration.

The device is capable of processing up to six specimens at once.

- Removable, sealed rotor
- Processes up to six specimens at one time
- Digital controls with LCD display:
  - Stores up to 25 programmes for instant recall
  - Programmed speeds from 250 – 2400rpm
  - Displays the programmed and remaining run time from 1-99 minutes
- Three acceleration options allows flexibility and protection for fragile samples
- Two-year warranty
- Maximum capacity: Six filled cytology funnels
- Brushless motor
- Temperature range:
  - Operating 10°C (50°F) to 40°C (104°F)
  - Storage -10°C (14°F) to 60°C (140°F)
- Dimensions: 254mm (w) x 382mm (d) x 254mm (h) / 10" (w) x 15" (d) x 10" (h)
- Weight: 4.5kg / 10lbs
- Operating noise level: Less than 65db

**Need consumables fast?**

**Call or order online before 2.00pm and you can have them the next working day. \***

\*Excluding weekends and bank holidays.







## EKF Diagnostics Lactate Scout +

EKF Diagnostics' Lactate Scout+ with haematocrit compensation is a medical grade point-of-care (POC), handheld lactate measuring device. It is used extensively by emergency medicine providers, clinical professionals, sport scientist and even individuals who want quick, accurate lactate measurements. The device requires just 0.2 µl of capillary blood and returns results in 10 seconds and can store up to 250 results.

The device is ideally equipped for operation in any situation, with an operating temperature range from 5 - 45°C and up to 85% humidity. The operation of Lactate Scout+ is intuitive using scroll wheel navigation and a simple menu structure. Two 'AAA' batteries are all that is required to perform over 1,000 tests, and with pre-calibrated test strips and automated self-test the Lactate Scout is the easiest and most reliable portable lactate analyser available.

Why choose Lactate Scout+:

- EKF Diagnostics is an established manufacturer, supplier, distributor and exporter of lactate analysers
- Dependable pre and post-sale support
- Easy-to-use
- Fast and accurate results (within 10-seconds)
- Bluetooth connectivity
- Performance management software available

### Consumables

Big pack 72 Lactate Strips 3 x 24  
 Big pack 48 Lactate Strips 2 x 24  
 Big pack 24 Lactate Strips 1 x 24  
 100 x Alcohol Pads

## Lactate Pro 2

Easy-to-use, while giving accurate, reliable results. The Lactate Pro 2 offers users a faster measurement time - just 15 seconds per test (45 seconds faster than the old Lactate Pro unit) and the ability to test up to 330 individuals (compared to just 20 on the old Lactate Pro).

Benefits:

- Fast measurement - 15 seconds (old Lactate Pro unit: 60 seconds)
- 330 measurement results
- Minimal sample volume. Only 0.3µl (compared to 5µl that the old Lactate Pro required)
- Technically improved
- Identify 3 different users
- Download measurement readings to PC in a CSV file via a USB cable (USB and software sold separately)

### Consumables

Lactate Pro 2 Test Strips (qty 25)\*  
 Lactate Pro 2 USB and Software for Download Option  
 Lactate Pro Test Strips (qty 25)

\* Please be aware that due to advancements in the technology used, the old Lactate Pro Test Strips do not work with the Lactate Pro 2.

## Reflotron Plus

Flexible testing to support your clinical decisions. Single-test clinical chemistry system which allows the measurement of 17 parameters from whole blood, plasma or serum, including:

- liver and pancreas enzymes
- metabolites
- blood lipids
- haemoglobin
- potassium

Immediate and reliable test results ensure a quick performance and verification of diagnosis without delay. Suitable for primary care settings, as a back-up system in hospitals and private labs, at screening sites and for health check-ups. Simply apply 30 µL of the sample material

## Accutrend® Plus

The Accutrend® Plus System is a flexible, hand-held point of care device for rapid and easy detection of four parameters on the spot. It offers quantitative results for glucose, cholesterol, triglycerides and lactate, directly from capillary blood.

### Consumables

Accutrend Plus Kit includes manual & carry case  
 Accutrend Cholesterol Strips  
 BM-Accutest Glucose Strips  
 Accutrend Triglyceride Strips  
 Accutrend Lactate Strips  
 Accutrend Control CH1  
 Cholesterol Control Solution  
 Accutrend Control G Glucose Control Solution  
 Accutrend Lactate Control  
 Accutrend Control TG  
 Accu-Chek Safe T Pro Plus Disposable Lancets

Consumables online

(capillary blood, venous blood, plasma or serum) to the test strip. There is no need to prepare reagents or to calibrate the instrument.



Section

4



HaB Direct, as the exclusive distributor for h/p cosmos, have to date, installed and supported over 500 high quality treadmill systems in the UK and Ireland.

h/p cosmos are recognised for outstanding technology, innovation, safety and superior product quality i.e. **20 year** economic lifetime with normal useage.

h/p/cosmos offer the largest and most comprehensive portfolio of diagnostic and rehabilitation treadmill systems of any provider globally.

Also available is an extensive range of unique features, options and accessories to assist a wide range of patients and clients.

HaB Direct are also the exclusive distributor for Monark in the UK and Ireland.

Over the years HaB Direct have supplied and supported over 1,000 Monark ergometers, many of which are still operational after 20+ years of use.

Monark ergometers are the “Gold Standard” benchmark for health screening and the new medically certified easy access rehabilitation bike ergometers are fast becoming the product of choice within physiotherapy clinics, GP referral and aging population programmes.

Monark in co-operation with the NHS have also developed custom made units that are being utilised in dialysis units throughout the UK.

**Designed and engineered to the highest standards with hundreds of different options and configurations available.**



Building on their 30-years' experience, h/p/cosmos continue to develop and enhance their product offering and currently provide a choice of over 100 different models of treadmill, with various sized running surfaces ranging from 150 x 50cm to 450 x 300cm; speeds ranging up to 80km/hour; and elevation

ranges from -35% to +35%. Added to their comprehensive range of optional extras that include unweighting systems, adjustable handrails and reverse belt rotation to allow downhill walking/running, it can be argued no two treadmills are ever the same.

Whether it is in a cardiology department, physiotherapy, or stroke rehabilitation centre, h/p/cosmos have a solution for you.

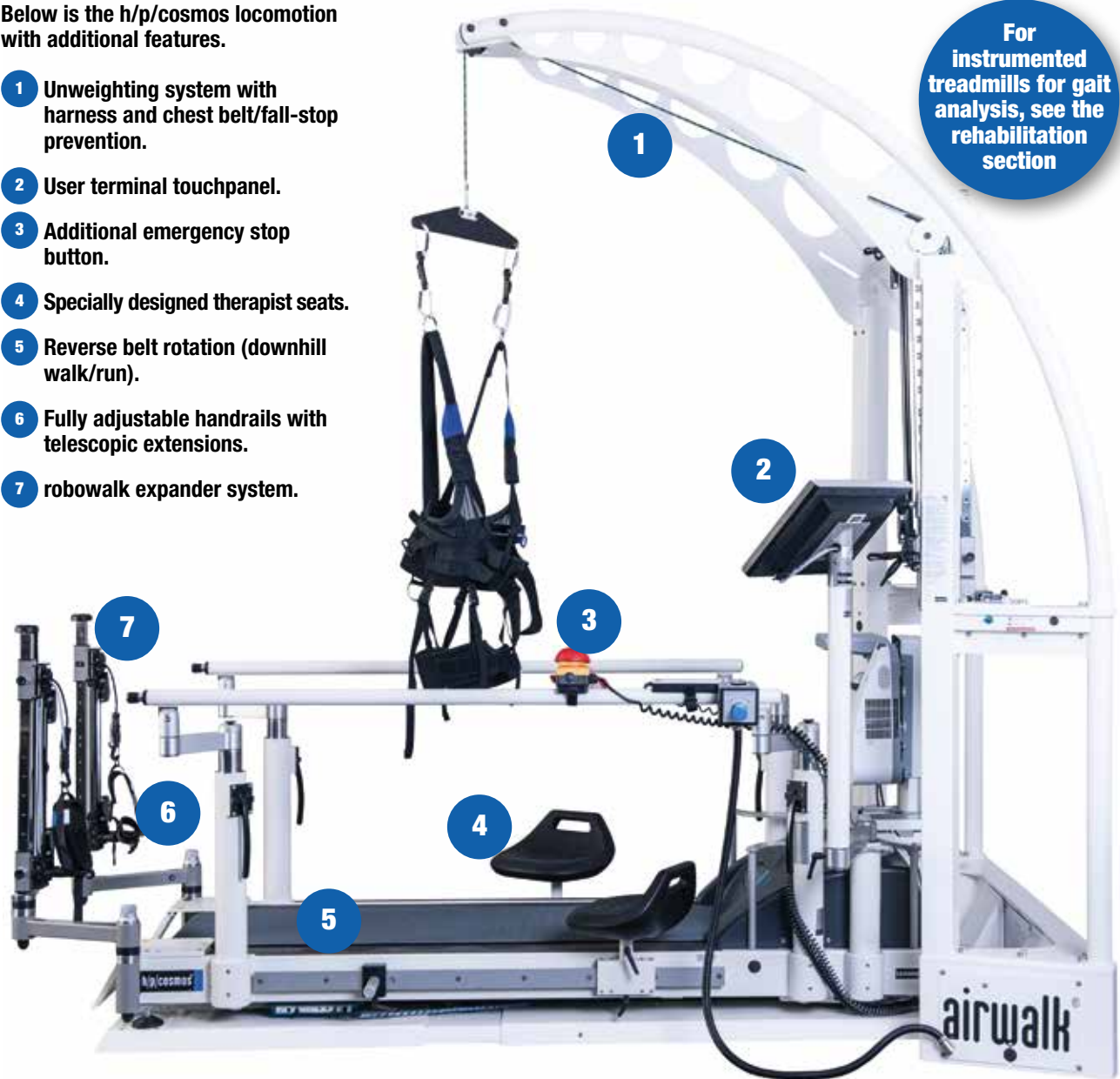
**Our experts will walk you through all the options to provide you with the best solutions.**



Below is the h/p/cosmos locomotion with additional features.

- 1 Unweighting system with harness and chest belt/fall-stop prevention.
- 2 User terminal touchpanel.
- 3 Additional emergency stop button.
- 4 Specially designed therapist seats.
- 5 Reverse belt rotation (downhill walk/run).
- 6 Fully adjustable handrails with telescopic extensions.
- 7 robowalk expander system.

**For instrumented treadmills for gait analysis, see the rehabilitation section**





## pluto® med

An excellent entry-level priced choice. It is very low maintenance and provides the runner or patient a comfortable run with its advanced construction. The pluto running machine is notable by its smooth running, strong drive-engine and timeless design.

## mercury® med

Ideal treadmill ergometer for the rehabilitation sector. It is a class IIb medically certified treadmill, which in accordance to the Medical Device Directive (MDD), is an active therapeutic medical device and active diagnostic medical device. This makes the h/p/cosmos mercury med treadmill perfect for use within a physiotherapy gym.

## locomotion® 150/50

The h/p/cosmos locomotion 150/50 treadmill with unweighting system is an ideal solution for rehabilitation centres. The specially designed therapist seats, with lumbar supports on both sides of the treadmill, allows the therapist to sit comfortably and position themselves optimally to manually assist the patient. Very few, if any treadmills can match what the locomotion treadmill can offer within the rehabilitation centre/department.

## quasar® med

A popular machine due to its slightly longer and wider running surface (compared to pluto and mercury machines), which provides the patient with a greater sense of security. The quasar med is an excellent choice for centres offering advanced rehabilitation assistance.

Design  
your own  
treadmill

Look at  
your options  
online

Entry level  
model

pluto med



mercury med



locomotion 150/50



quasar med



# h/p/cosmos®

## pulsar®

The h/p/cosmos pulsar is a high-end performance diagnostic treadmill. Used extensively within sports medicine facilities worldwide, the pulsar treadmill has an excellent array of features as standard, including MDD certification, reverse belt rotation for downhill work and a standard maximum speed of 40km/hour.

## venus®

The h/p/cosmos venus is popular throughout the world within sports medicine, as this machine can be utilised by those individuals looking to exercise whilst still in their own wheelchair or on a bicycle.

## saturn®

The largest oversized machine used mainly within the sports medicine sector. The h/p/cosmos saturn treadmill has long been the 'go-to' treadmill for leading sporting institutes and universities throughout the world. saturn treadmills are also easily accessible for patients using wheelchairs, or those patients testing prosthetics.

**Our team of specialists are here to help you find the best solutions for you**



**Design your own treadmill**

**Look at your options online**

pulsar



**Retrofitting options available**

venus



saturn

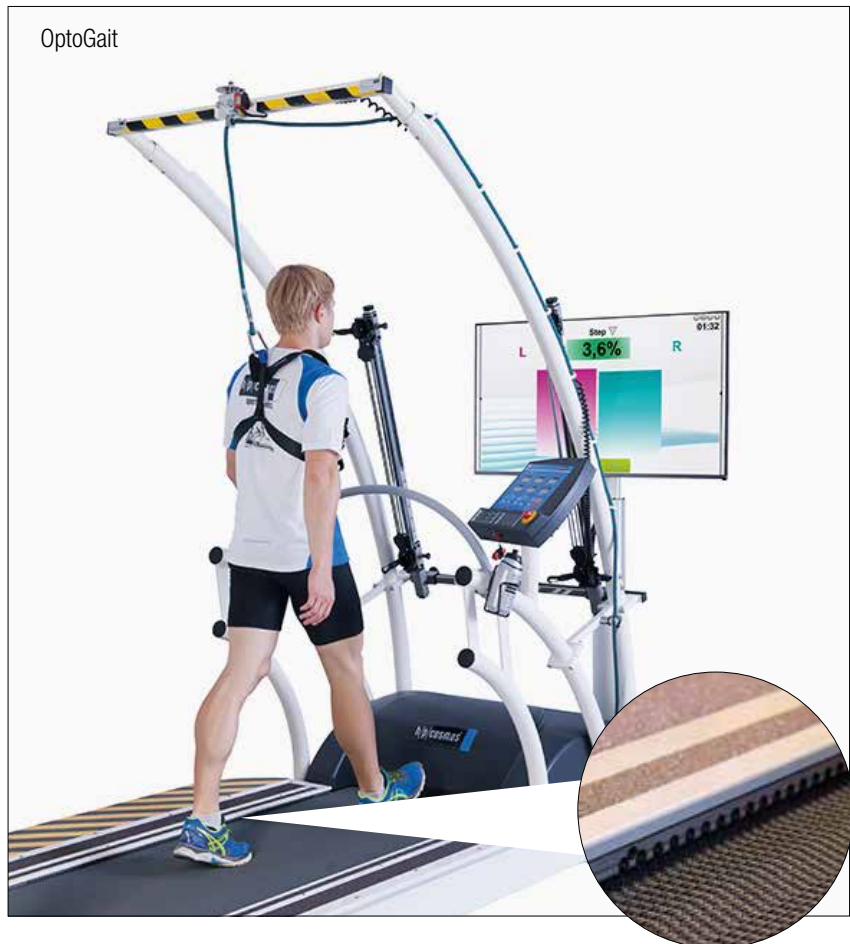


**20 year guarantee on motor and frame, subject to service**

**OptoGait**

OptoGait is an innovative system for the analysis and functional assessment of patients' movements with normal or pathological conditions. The system is equipped with optical sensors working at a frequency of 1,000 Hz and have an accuracy of 1cm. As the OptoGait system has been embedded into the design of the treadmill, patients will not even know they are being analysed and therefore are likely to feel less anxious.

- Advantages of the integrated OptoGait treadmill:
- Patient moves quickly into a natural gait pattern
  - The system saves space; very long distances can be measured and analysed
  - Patient is secured against falling by the safety arch and emergency stop
  - With robowalk gait training and therapy can be performed at the same time

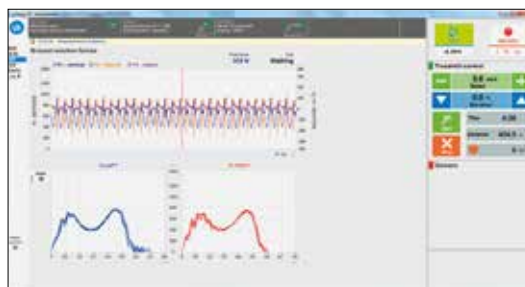
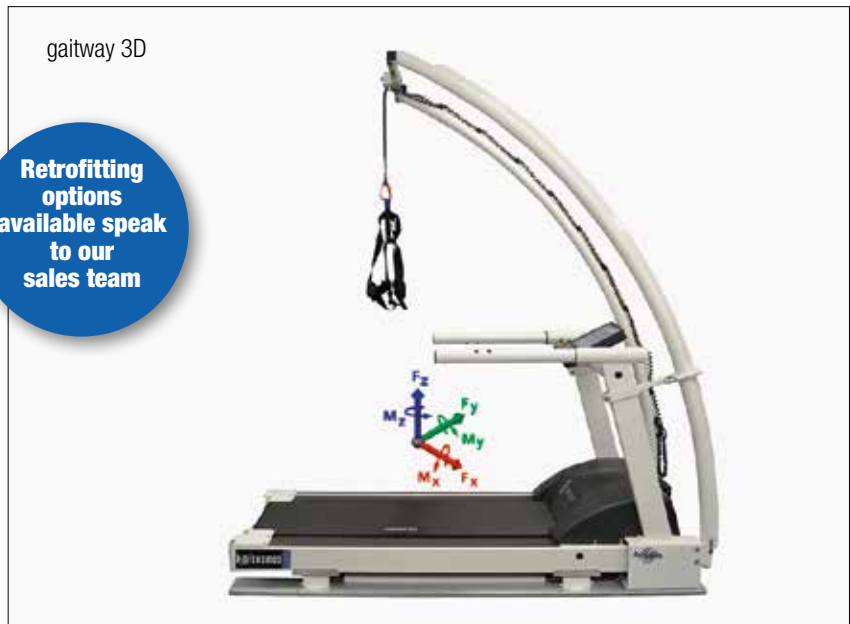


**gaitway 3D treadmill designed by h/p/cosmos and Arsalis**

The new gaitway 3D is a joint design by h/p/cosmos and Arsalis. It measures the ground reaction forces and torques in three directions and comes in three different deck sizes: 150/50cm, 170/65 and 190/65cm. Each size is optimised for a range of speeds.

The gaitway 3D offers a rigid construction to record optimal quality signals. The functionalities include a patient weighing scale, a recording of the ground reaction forces at rates up to 10 kHz, left and right force measurement for the vertical force during walking and an extensive list of biomechanical parameters of normal and pathological gaits.

The treadmill has demonstrated outstanding accuracy and reliability, allowing for routine patient assessments in rehabilitation and sports medicine. The treadmill can also be interfaced with 3D motion tracking systems, EMG and metabolic energy expenditure systems routinely used in gait analysis labs.





# h/p/cosmos®

## airwalk®

h/p/cosmos have three versions of the airwalk® system:

- Airwalk ap
- Airwalk 50
- Airwalk 90

Each device has its own level of unweighting ranging from the ability to unweight up to 50kg through to 240kg. h/p/cosmos unweighting systems allow rehabilitation specialists to manually manipulate patients without fear of them falling over.

## parawalk®

The h/p/cosmos parawalk® has integrated gas piston height adjustment. Adjusting the height is child's play – even with just one hand. The width and angle of the hand rails can be adjusted quickly by lifting the locking lever, pushing the adjustment button for setting the height and after adjustment locking the lever again – that's it.

- easily adjustable handrail bars complement current treatment
- simple, continuous height adjustment with gas spring support
- reproducible settings through integrated reading scale
- best results through independent width adjustment of the handrails

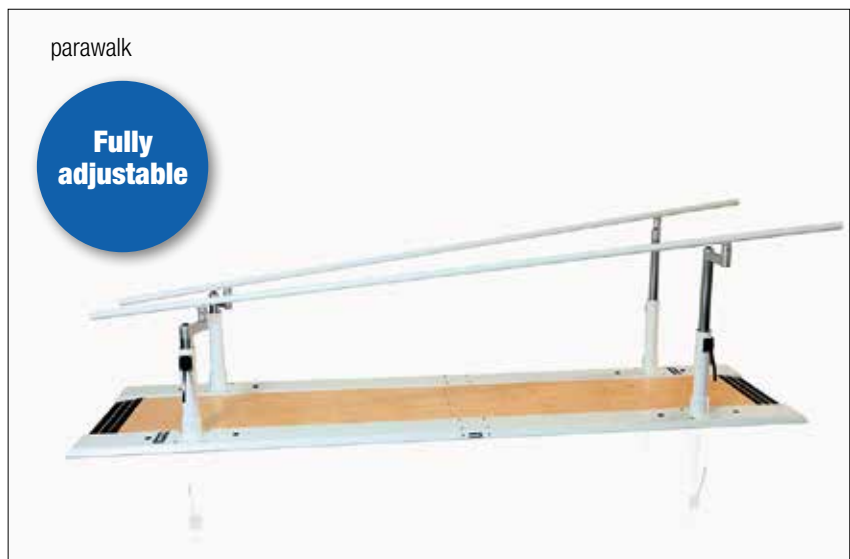
## robowalk® system

The h/p/cosmos robowalk® is a cable pulley system for h/p/cosmos treadmills. The patient's legs are attached to the rubber cable pulls via cuffs. The robowalk expander system is an invaluable tool for therapists and allows patients to safely undertake exercise for longer periods of time, thus producing better results. Both horizontal and vertical adjustments are possible to change the angle of support or resistance to help correct and train gait patterns.

The patented tension adjustment system allows fast and simple alterations to be made to ensure optimal training resistance/assistance for patients. Similarly, the scales system allows repetitive set-ups for reproducible training programmes.



Retrofitting options available speak to our sales team



HaB Direct are proud to be the exclusive UK and Ireland distributor of Monark Exercise AB ergometers. Founded over 100-years ago, the Monark brand has become established as one of the leading manufacturers of exercise and sport medicine bike ergometers in the world.

Monark's commitment to quality, durability and precision has always been a core focus and is the reason for their continued success. Monark ergometers are accurate, easy-to-use and can meet the demands of rehabilitation, cardiology and sports medicine centres. Monark products are built for life and performance.

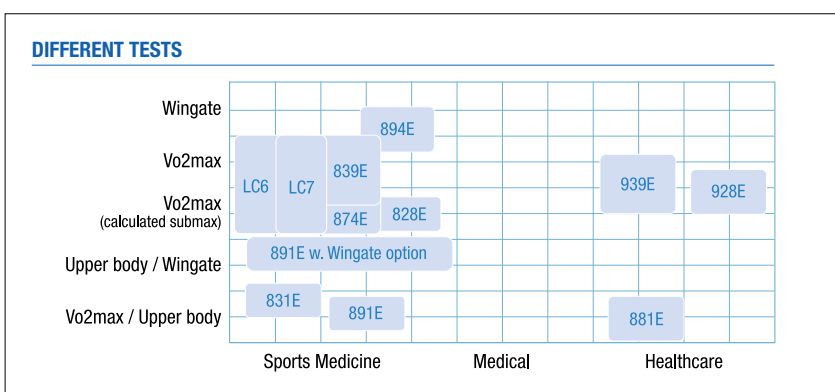
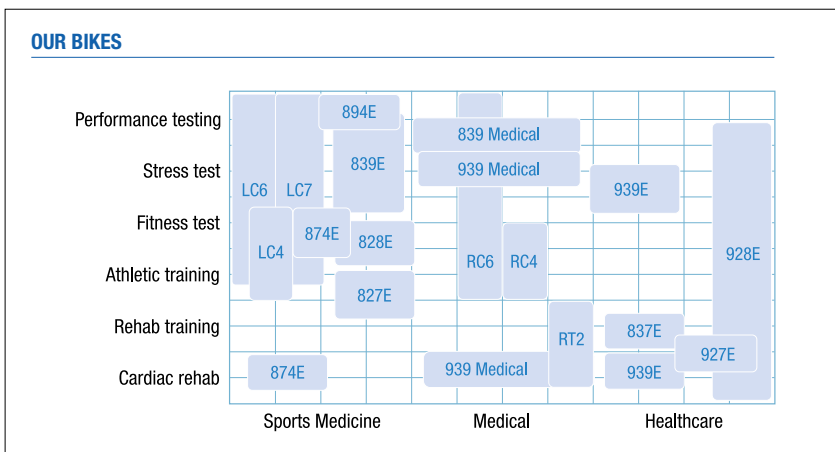
Monark's successful medical product line is based on accuracy and all ergometers, regardless of whether lower or upper body trainers, deliver safe test values and are fully compatible with leading ECG systems. They are often used in laboratories for various tests.

The range of exercise bikes are speed-independent, which means that you can pedal at any speed without affecting the resistance level. They can take loads of up to 250 kilograms and be monitored by ECG or PC softwares. The low step access range of bike ergometers make them easy to get on









and off for patients with mobility issues. The bikes have a clean ergonomic design and are suitable for both training and for rehabilitation. They are extremely user-friendly, with smart adjustments that allow the user to customise the bike to their individual requirements and objectives.



Models in Medical Range			
High Performance Test	Advanced Test	Basic Test	Training
Monark 939 Novo		Monark RC4	
Monark RC6	Monark 928E		Monark RT2
			Monark 927E
Monark 891 Wingate		Monark 891E	
		Monark 881E	
			Monark 871E



### Key Features

-  Wheelchair
-  ECG, Ext. Control
-  PC Connection
-  PC Software
-  Heart Rate
-  Test
-  Fixed Protocol
-  Constant Power Mode



## RC6

### Main Features

- Designed for external control
- Monark Novo touch display
- Monark Novo control unit
- Superfast motor
- Easy entry recumbent frame
- Calibrated Watt in display

### The Basics

- Speed independent and dependent power control
- Easy to control and calibrate
- Can be controlled by two external devices (RS232 or USB) or bike display
- Resistive LCD touchscreen
- BLE Smart and ANT+ HR systems
- Easy to connect to external devices
- Workload range 4-1400W (200rpm)
- Protocols: Depending on external device functionality
- Training mode: Watt, KPM/min, VO2, kP and N

RC6



## RC4

- Good cycle feeling
- Speed independent power control
- Easy to control and calibrate
- Remote control USB
- Easy to connect to PC Monark Test Software
- ANT+ and 5 kHz HR systems
- Workload range 15-700W
- Protocols: Increment, PWC, Åstrand, YMCA
- Training mode: Watt and METS

RC4



## RT2

- Good cycle feeling
- Speed independent power control
- Easy to control and calibrate
- Remote control USB
- Easy to connect to PC Monark Test Software
- ANT+ and 5 kHz HR systems
- Workload range 15-700W
- Protocols: Increment, PWC, Åstrand, YMCA
- Training mode: Watt and METS

RT2



Monark servicing available by  
HAB Direct's qualified engineers.  
Please call for details.



939 novo 



### 939 Novo

The 939 is Monark's leading medical cycle ergometer, especially designed to facilitate advanced physiological tests where accuracy and repeatability are essential.

The easy entry frame and upright cycling position creates a perfect test, rehabilitation and training ergometer for novice cyclists.

The 939 is equipped with the Novo control system which guarantees a very fast and accurate adjustment of the resistance. The ergometer can be used as a stand-alone unit or be controlled by an external system like a metabolic cart or a computer. The pendulum system provides you with Monark's unmatched calibrations which guarantees accurate and reliable data.

### Compact Upper Body Rehab 871E

Comfortable and easy-to-use, the 871E offers a fixed crank that makes the activation of biceps and triceps possible. A heavy flywheel provides smooth action, even at heavy loads and is ideal for upper body exercise.

871E 



928E 



### 928E

For a unique combination of safe testing and training in a single product, the Monark 928E ergometer provides easy-to-use settings and options. Self calibrating and with a maximum user weight of 250kg, the bike is pedal independent, meaning that you can pedal with varied frequency while maintaining constant power output. The 928E also features a display with two test protocol (Åstrand, YMCA), a manual mode for training, as well as, + and - buttons for adjusting workload in Watts.

A foldable, mobile version is also available.

Please visit [habdirect.co.uk](http://habdirect.co.uk) for product specifications, pricing and the full range of Monark accessories.

### Upper and Lower Body Rehab 881E

The 881E provides excellent possibilities for adjustment with crank arms that are independent from each other and can be positioned at different angles and lengths. A unique duality allows use with either the hands or feet. Loads can be calibrated and are shown in Watts at 50 rpm.

881E  



927E 



Best seller

### Cardio Care 927E

Training and rehabilitation for a wide variety of users with different work capacities, the bestselling 927E provides a smooth cycle feeling even at a low load. Manual load adjustment and the easy to read display make this bike user-friendly and the few moving and visible parts creates a highly reliable product.

### Cardio Rehab 891E

This is the upper body version of the 'Gold Standard' Peak Bike. This stable arm ergometer with a great bike feeling comes in two versions, both with adjustable stand.

The basic model 891E is for standard upper body ergometry as well as submax and max VO<sub>2</sub> tests.

891E is also available with a "Wingate" option and has the same features as the Peak Bike, but is adapted for the upper body. The Wingate option is a highly precise and useful tool for testing anaerobic capacity.

891E    





### Medical Treadmill

After 25 years as market leader in medical cycle ergometers for test and rehabilitation, Monark are now introducing their first treadmill for medical and therapeutic purposes.

#### Controls and display

Using the same control unit as the state-of-the-art exercise bikes allows for high precision controls, as well as, full flexibility in connecting external devices via Trackmaster and CSAFE protocols. BLE Smart and ANT+ heart rate monitoring.

#### Training mode display

Speed, inclination, distance, heart rate, time.

#### Low entry point

The entry point level is lower than average for easy access. Handrails are extended beyond the access point for further assistance, particularly helping users to stand up from wheelchairs. Maximal user weight 250 kg.

#### Speed and elevation

Walking speed is adjustable from as low as 0.1 km/h (0.06 mph) to 20 km/h (12.4 mph). Band elevation is adjustable from 0 to 11 degrees (0 to 21%).

#### The running belt

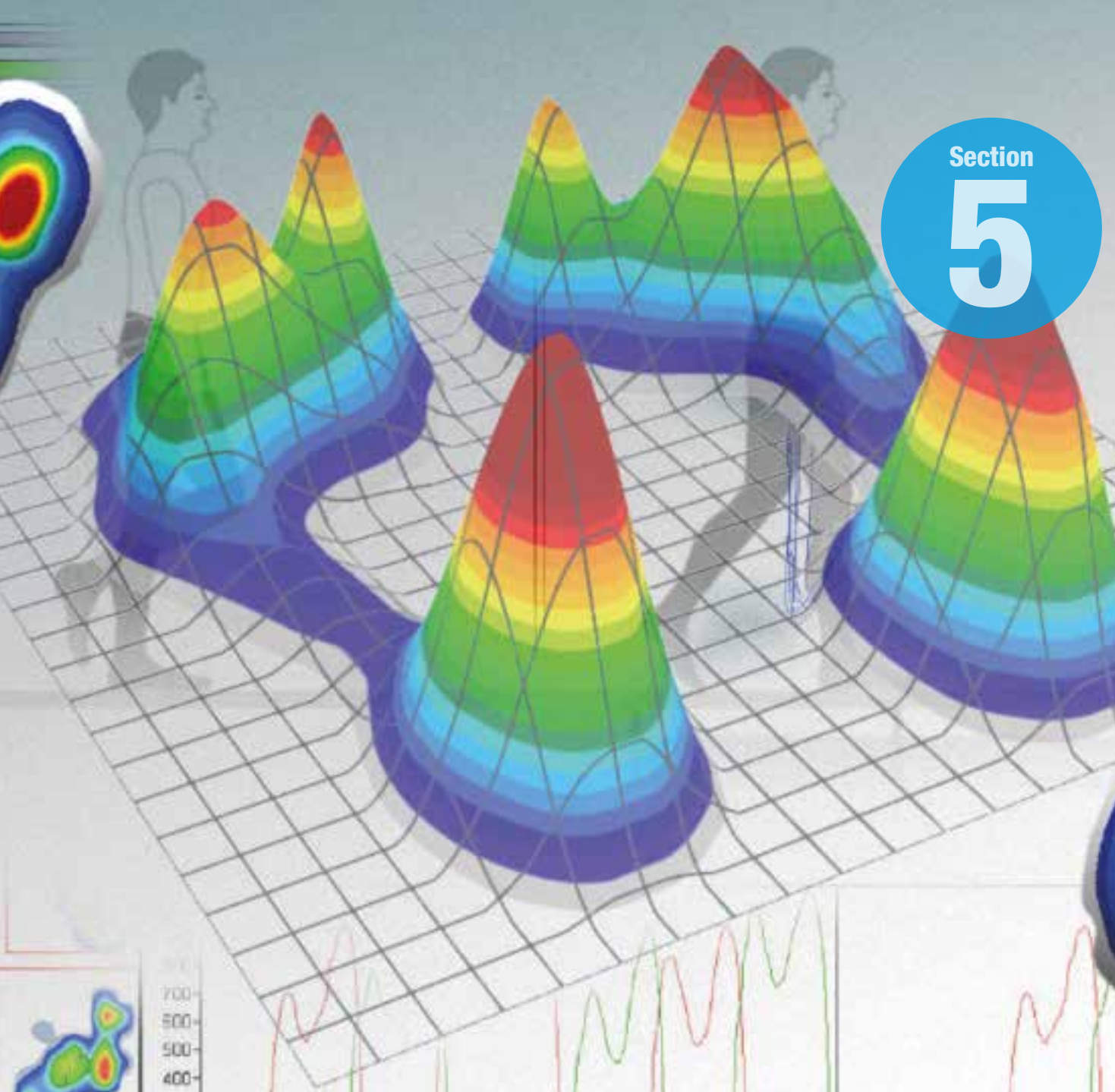
Self lubricating running area 53 x 160 cm.



Please visit [habdirect.co.uk](http://habdirect.co.uk) for product specifications, pricing and the full range of Monark accessories.

Section

5



Welcome to the new and improved sports medicine, recovery and rehab range from HaB Direct.



CET CryoSpas

Sports medicine is an essential part of what we do.

HaB have forged new partnerships with market leaders in the sector providing the very latest innovations from Zebris and CET CryoSpa.





**NEW**



## CET CryoSpas

RESEARCH | DESIGN | PERFORMANCE

CET CryoSpas have the optimum combination of the 4 key factors that achieve a therapeutic effect - **turbulence**, thermostatically controlled **temperature** (from 1°C to 14°C), **salinity** and **pressure** (due to depth of water). They not only provide a highly effective modality at an affordable cost, but also offer a number of distinct advantages when compared to alternative modalities. For example, the ability to combine low temperature therapy with non-weight or weight bearing exercise is a standard design feature giving an advantage over ice packs or wraps. Again, the use of salt water provides additional therapeutic benefits when compared to other ice baths.

### Team CryoSpa Sport

#### Ice bath for up to 8 athletes at a time

The Team CryoSpa consists of two CryoSpa Sports ice baths with a shared set of steps. Each CryoSpa can accommodate up to 4 athletes enabling the whole squad of players to get through quickly, saving time post-match or post-training. The temperature of each CryoSpa can be individually controlled down to 1°C, which enables you to set different temperatures in each one to accommodate individual athlete requirements.



## CET CryoSpa Sport

The CryoSpa Sport offers optimum ice bath therapy, accelerated recovery, minimising fatigue and lowering risk of injury. Ideal for up to four athletes, it has 20+ jets and a unique patent protected design.

The CryoSpa Sport and the Team CryoSpa Sport offer the following features:

- Temperature range from 1°C to 14°C (34°F to 55°F)
- Hydrostatic pressure and up to 20 massage jets
- Penetrating cold for effective therapy and short treatment times
- High salt concentration aids infection control
- 100 sq ft filtration per spa keeps the water clear
- High quality, low temperature, digitally controlled chiller
- Stainless steel safety rail and steps
- Two-year guarantee on spa body

The CET range of spas combine the best of cold hydrotherapy practices with modern technology to enable athletes to train harder whilst recovering quicker.



## ContrastSpa Duo

Nowadays, most strength and conditioning coaches have a preference for either contrast therapy i.e. alternating hot and cold, or for cold water immersion alone. Contrast bathing works by promoting rapid alternation between vasodilation and vasoconstriction, which causes a 'pumping' action in the peripheral circulation by using temperature rather than manual methods. Heat stimulates circulation bringing in fresh blood, lymph, oxygen, water and nutrients; whilst the cold promotes the inflammatory response and expels stagnant fluid and waste products.



## CryoSpa Mini

The CryoSpa Mini is a portable ice bath, which has been designed for lower arm therapy. With a compact design, it is easy to operate and is ideal for treatment in clinics or at home. It includes a built-in chiller with digital temperature controller enabling it to chill the water to 5°C. Combined with massage jets, it provides intense chilling and accelerated recovery for the lower arm, which makes it ideal for throwing and racket sports and wheelchair users.



Features of the CryoSpa Mini:

- Set temperature as low as 5 °C (41°F)
- Chills to target temperature in minutes
- 4 massage jets
- High salt concentration
- Simple to operate
- Compact design for easy transportation
- Built-in chiller & pump
- Plug & play design
- Two-year guarantee on spa body

Visit [habdirect.co.uk](http://habdirect.co.uk) for further details and prices

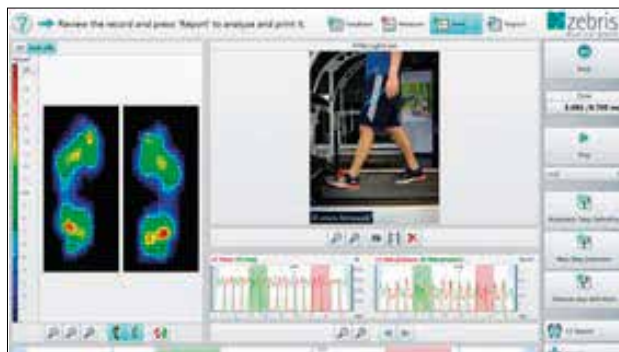
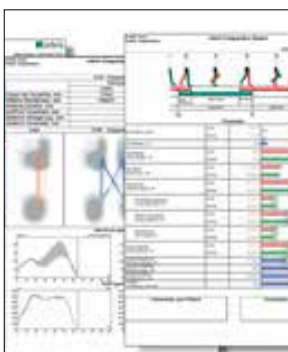
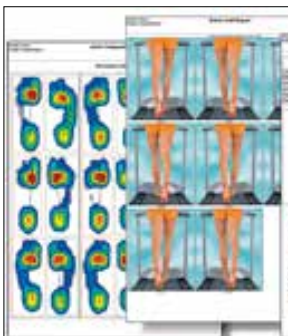
## zebris Force Distribution Measurements - FDM-T

Proven pressure measurement technology combined with classic treadmill analysis. The measurement platform is installed underneath the belt of either a new treadmill or retrofitted into an existing one. It contains a pressure sensor matrix with individually calibrated, capacitive sensors. During the assessment, patients can walk on the treadmill with and without shoes. Using a procedure specially developed by zebris, the movement of the treadmill is compensated, so that completely reliable gait and roll-off patterns can be analysed. Different types of treadmill ergometers are available for the basic system. The zebris FDM-THM system was developed on the basis of the h/p/cosmos mercury running machine, whilst the zebris FDM-THQ system was developed on the basis of the slightly larger h/p/cosmos quasar running machine.

The determined gait parameters of the measured gait cycles are analysed and depicted in the zebris software Suite FDM. The results can inform the use of insoles in podiatry or are used for creating a customised therapy or training plan.



FDM-T System



## Analyse gait behaviour

Benefits of zebris FDM-T:

- Suitable for stance analysis, roll-off analysis and gait analysis
- Robust pressure measurement technology
- Gait analysis is possible with or without shoes
- Capacitive, individually calibrated sensors
- Different resolutions and measuring speeds, depending on the number of sensors
- Intuitive modular software suite FDM with sound evaluation report
- Can be combined with SyngLightCam for a synchronous video recording and EMG



**zebris Rehawalk®**

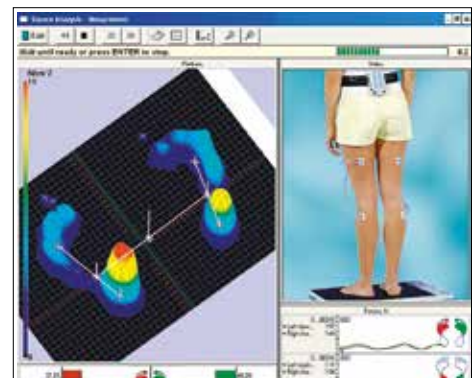
The treadmill-assisted zebris Rehawalk® system is designed for the analysis and treatment of gait disorders in neurological, orthopaedic and geriatric rehabilitation. The training can be carried out when using an unweighting system and thus also allows for patients who are suffering from severe functional limitations to commence therapy even at an early stage. The technological possibilities of Rehawalk offer a complete adaptation to the patient's needs. Rehawalk is positioned between the robot-assisted locomotion therapy and the manual gait therapy and can easily be integrated with zebris FDM evaluation software.

After an initial gait analysis to assess the patient's status quo, the core element of Rehawalk is the gait training through dynamic visual cueing. Using dynamic visual cueing the therapist instructs the patient to learn walking consciously again by having the ideal gait pattern projected onto the treadmill's surface. Patients are then instructed to position their feet as accurately as possible within the projected surface area. The success report documents the adherence to the target settings.

Training can be taken further. Balancing on stones and wooden footbridges or avoiding falling rocks – the course through the virtual forest in the Allgäu landscape while observing their own footprints on the treadmill.



Rehawalk



**PDM and PDM Mobile Pressure Distribution Measurement Platforms**



Based on the tried and tested zebris pressure distribution measurement technology, the new generation of pressure distribution platforms are thinner, more portable and have a higher measuring frequency which opens up new possibilities in stance, roll-off and gait analysis.

The benefits of the zebris FDM:

- Different types: PDM-XS, PDM-S, PDM-L
- Available as standard or mobile version, utmost flexibility with integrated battery and bluetooth
- High measurement frequency of up to 200Hz as a standard with PDM-S and PDM-XS
- Synchronisation of two platforms from type PDM-L completely wireless through integrated IRsync
- Synchronisation with SyncCam and SyncLightCam

Visit [habdirect.co.uk](http://habdirect.co.uk) for further details

## Plantar Pressure Distribution Measurement System FDM

The tried and tested zebris FDM pressure distribution measurement system captures the static and dynamic pressure distribution when standing and walking quickly and easily.

- Suitable for the stance, roll-off and gait analysis
- Robust pressure distribution measurement technology
- Capacitive, individually calibrated sensors
- Five different sizes: FDM SX, S or FDM 1.5, 2 and 3
- Different solutions and measuring speed, depending on the number of sensors
- Intuitive modular software suite FDM with sound evaluation report
- Optionally available module for stance analysis

- Can be combined with zebris SyncLightCam for synchronous video recording and EMG
- For a longer gait track and thus several gait cycles, two platforms can be combined, so that a maximum gait track of 6 metres is possible



**Retrofitting options available speak to our sales team**

## balori® systematic e-coordination training

When it comes to human movement, coordination is paramount. Strengthening coordination does not only support us in daily life, but also in sports. In doing so, the individual coordination ability is completely independent of age. Therefore an efficient training of basic coordination is as important for young people as it is for the elderly. The balori® e-coordination training is made for everyone – thanks to the large number of exercises that vary in their degree of difficulty.

### Improve coordination with functional balance and coordination training

Whether fitness or wellness studios, rehabilitation facilities or physiotherapy practices, the new balori e-coordination training feels at home wherever motion sequences and muscles are trained and health prevention comes first. The innovative concept is based on the balori method - a holistic balance and coordination training by Martin



Frondorf - which is combined with a zebris pressure distribution platform, a camera to capture motion sequences and a virtual training reality with avatar. The system makes the presence of a trainer unnecessary thus allowing for training sequences that are completely flexible and independent of specially trained staff.



The benefits:

- Functional coordination training for improved reaction time and efficient coping with everyday life
- Balance training for fall prevention and improving environment adaptability
- Orientation training for good timing and safe moving
- Strength training for a healthy back and stable joints
- Intuitive software with objective training parameters and easy, virtual 3D instruction through avatar

## Camera & Lighting

The zebris SYNCLightCam, SyncCam and SYNCLight put the measuring procedure into perspective. They comprise powerful LEDs and high-performing cameras in one set-up. The image data that is generated during the analysis can be synchronised with single-frame precision. The integrated power LEDs are infinitely adjustable in light intensity. For different perspectives and even more light intensity, you can also synchronise the cameras and lighting systems. The SYNCLightCam combines camera and lighting system in one compact unit.





HaB Direct has led the way in introducing, delivering and supporting the latest equipment for health screening, corporate and occupational health programmes in close co-operation with leading brands.



HaB Direct has often been selected by its supply partners to introduce the very latest equipment and consumables, for example within this catalogue the new Bodystat Touchscreen model is featured alongside other new exciting introductions.



HaB Direct is the preferred one-stop-shop supplier of health screening and monitoring equipment, plus supplies to numerous national and international public and private operators.



# seca **NEW**

## seca mBCA 515

Medically valid, medically precise, medically useful. The medical Body Composition Analyser (mBCA) by seca breaks down weight into body compartments relevant to the practice of medicine, namely, fat mass and fat-free mass, body water (made up of extracellular water and intracellular water) and skeletal muscle mass. Measurements are processed by six analytical modules and presented in easy-to-understand graphics. Suitable for measuring patients up to 300 kilograms, the short measurement time of less than 20 seconds and the simple and intuitive navigation of the touch-screen display ensures the seca mBCA is ideal for helping to diagnose many diseases such as current epidemics of obesity, diabetes or malnutrition.



Wolfgang, Mark	18.08.1977
Simon, Alexia	17.03.1986
ELLEN-GÜNDISCHKEIT, NEHELM	15.09.1961
Stavros, Nestor	04.04.1957
Werner, Gloria	10.07.1997

**For information on all the options available call: +44 (0)1926 816100**



### Seca mBCA 515 Modules at a glance

**Energy**

- Fat mass (FM)/%FM
- Energy stores in body
- Resting energy expenditure (REE)
- Total energy expenditure (TEE)

**Fluid**

- Total body water (TBW)
- Extracellular water (ECW)
- Hydration (H<sub>2</sub>O) = Extracellular water / intracellular water
- Biorelectrical Impedance Vector Analysis (BIA)

**Function/Rehabilitation**

- Fat-free mass (FFM)
- Fat mass (FM)/%FM
- Fat mass index (FFM/IM)
- Skeletal muscle mass (SMM)

**Health risk**

**Development/Growth**

**Raw impedance data**

## seca mBCA 525

The new compact class for mobile body composition analysis. Expertly developed for mobile application, the seca mBCA 525 is one of a kind in terms of function and performance. The unique measuring mat measures all of the required parameters such as fat mass, muscle mass and body water in a fully self-sufficient way. The mat also automatically links to the touchscreen monitor by Wi-Fi, which can also be deactivated if required. It's lightweight, practical handle and optional mobile stand with a basket for patient files and accessories guarantees maximum mobility.



### Baby Scales



### Flat Scales



### Measuring Stations



### Chair & Multifunction Scales



**See more online**

### Tanita MC980MA

Incorporating the very latest multi-frequency BIA technology together with increased data display via built-in Microsoft® Windows® software, the Tanita Multi-Frequency Segmental Body Composition Analyser can perform a full body composition analysis in less than 30 seconds. The data is then displayed on screen and can be easily printed on to a consultation sheet.

Weight loss goals and body fat percentages can be entered, giving the user the ability to track their progress and increase motivation. All user data can be stored and used for detailed trend analysis using data management software.





**WORLD No.1  
BIA BRAND  
5 YEAR  
GUARANTEE**

**To see the complete range of  
Tanita products visit  
[habdirect.co.uk](http://habdirect.co.uk)**

### Tanita MC780MA

This model has been designed to be interactive, allowing clients to simply step on and take a measurement without specialist assistance. A full segmental body composition analysis is performed in less than 20 seconds and the dual display clearly shows measurement data and detailed segmental analysis in an easy-to-read illustrative format. Goals for weight and body fat can be set using the 'goal setter' mode to increase motivation and demonstrate progress of any weight or fitness program. All the user data can be stored and used for detailed trend analysis using GMON Health Monitor Software.



### Tanita DC360

Full body composition analysis provided in 15 seconds using clinically accurate Tanita Dual Frequency BIA Technology. Comes with integrated printer providing instant read out of results with topline analysis. GMON Pro Software compatible, allowing trend analysis, health risk assessments and full data management.

Available with or without column kit.



### Tanita GMON Software

The Tanita GMON professional medically approved software allows the user to connect and easily view data obtained from any scale in the Tanita Professional range and chart progress and trends in body composition measurements.



See pages 25-28

**Monark for medical applications - 25 years as the market leader.**

NEW recumbent ergometers range of upper and lower body ergometers.

NEW Treadmill for medical and therapeutic settings.

900 series of ergometers – designed with easy access frames and unrivalled functionality.





Designed for clinical use and manufactured to the highest levels of quality and accuracy



### Nissei DS-1873 fully automatic blood pressure monitor



Fast, reliable and easy-to-use with integral cuff storage holder.

- 13 digit LCD display
- Pressure indication range  
50 to 250 mmHg (systolic)  
40 to 180 mmHg (diastolic)  
40 to 160 pulses/min (pulse rate)
- Two memory banks of 30 measurements each with averaging.
- Ideal for two users or for morning and evening recording

**Product code: DS1873**



Best seller

### Nissei DS-1902 auto inflate blood pressure monitor

- Clinically validated for guaranteed accuracy
- Measures during inflation for fast results
- Reduces discomfort from over pressurisation
- Ideal unit for monitoring multiple users with varying arm sizes, one cuff size fits all
- 2 memory banks each with 30 measurement results, their average stored, with memory delete and 1 neutral memory bank

**Product code: DS1902**



### Nissei DSK1031 upper arm blood pressure monitor

Clinically validated to the latest, most stringent, ESH-2010 International Protocol and recommended for clinical and personal use. Comes with a 60 reading memory.

- Uses a slim-fit preformed universal arm cuff (22 cm to 43 cm). No need for two separate cuffs, one size fits all
- Controlled inflation pressure, thereby avoiding discomfort caused by over inflation
- Irregular pulse rhythm displayed if detected and can calculate and display "Pulse Pressure"

**Product Code: DSK1031**



Displays result on WHO classification chart to enable easy comparison with recommended values.

### Nissei DSK1011 upper arm blood pressure monitor

Clinically validated to the latest, most stringent, ESH-2010 International Protocol and recommended for clinical and personal use. Comes with a 60 reading memory.

- Fast operation measuring during inflation. When the arm cuff finishes inflating the result is available
- Controlled inflation pressure, thereby avoiding discomfort caused by over inflation
- Irregular pulse rhythm displayed if detected and can calculate and display "Pulse Pressure"

**Product Code: DSK1011**



Displays result on WHO classification chart to enable easy comparison with recommended values.

### Nissei DS-500 fully automatic upper arm blood pressure monitor

Super comfortable, fast and accurate with simple one button operation.

- Two memory banks with averaging for two users or for morning and evening recording
- Date and time display
- Irregular pulse detection (arrhythmia)
- Clinically validated for guaranteed accuracy

**Product code: DS500**



More from NISSEI





### Nissei WSK1011 wrist type blood pressure monitor

The first wrist type monitor to be clinically validated to the latest, most stringent, ESH-2010 International Protocol and recommended for clinical and personal use. Comes with a 60 reading memory.

- Motion detection to indicate if user moved during measurement, which could affect accuracy of the result
- Irregular pulse rhythm displayed if detected and can calculate and display "Pulse Pressure"

**Product Code: WSK1011**



### Nissei WS-1300 wrist type digital blood pressure monitor

Compact, fast and easy-to-use. No need to remove clothing to take blood pressure.

- Two memory banks of 60 readings each with averaging
- Date and time display
- Irregular heartbeat detection (arrhythmia)
- Pre-formed cuff suitable for wrists 12.5 to 21.5cm circumference

**Product code: WS1300**



### Nissei B0-750 finger tip pulse oximeter

Highly reliable and easy-to-use thanks to the "Full-Auto" technology that allows the device to turn on, turn off and turn the display 180 degrees (using tilt function). Robust design. Multifunctional, high quality model meeting the needs of the medical field.

**Product code: B0750**



### Osmocheck

Osmocheck is a handheld, portable, personal refractometer, calibrated from 0 to 1,500m Osmols/kgH<sub>2</sub>O, for use with urine to give an instant measure of dehydration.

Only a few drops of urine are required for an instant reading. Early morning urine samples are recommended when urine is in equilibrium with the body. This device is easy to use at a patient's bedside with a minimal sample, or in a doctors surgery. Osmocheck makes it easy to determine whether a patient is dehydrated or not.

**Product Code: OSMO**



### Digital Medical Ear Thermometer

Easy-to-use, battery operated, electronic ear thermometer. Suitable for all ages, especially babies, young children and the elderly.

- Reliable temperature measurement within seconds
- Temperature in either °C or °F
- Automatically stores last 10 readings to monitor trends
- Supplied with carrying case and set of 20 disposable hygienic probe covers
- Between 34°C and 44°C, accuracy is  $\pm 0.2^{\circ}\text{C}$
- Standard adopted: EN12470-5:2003
- Clinical thermometers - Part 5: Performance of Infra-red ear thermometers (with maximum device).

**Product Code: 4494819**

Spare probe covers (Packs of 20)

**Product Code: 4503345**



### Digital Clinical Thermometer

An easy-to-read, digital clinical thermometer for oral, underarm and rectal use. CE Marked.

**Product Code: 3805139**

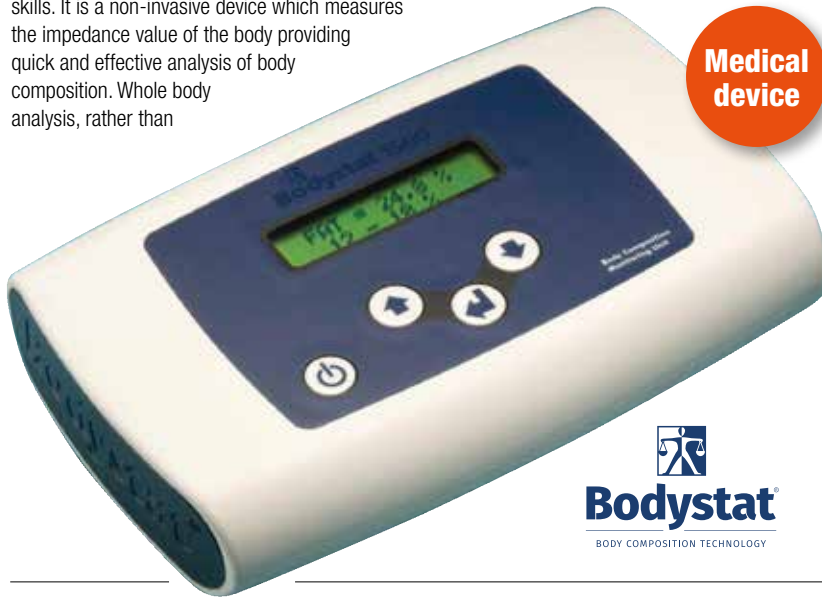


For Reflotron blood analysis go to page 18 for details or visit [habdirect.co.uk](http://habdirect.co.uk)

### Bodystat®1500 MDD

The Bodystat®1500MDD is a lightweight, hand-held, battery operated Bio-impedance Analyser which is easy-to-use and requires no specialist skills. It is a non-invasive device which measures the impedance value of the body providing quick and effective analysis of body composition. Whole body analysis, rather than

partial body analysis of arms or legs only, is measured for greater accuracy. Meets CE 0120 Medical Devices Directive and FDA.



Medical device



#### BIAS Software

The Bodystat®1500MDD contains separate equations for children aged 6 years and over and adults. It also shows a calculation for Dry Lean Mass. A number of health professionals find Dry Lean Mass an invaluable tool for monitoring muscle wasting/growth. Included with the unit are two software programmes, namely the Wellness and Body Manager Programmes.

**Product code: 212**



### Bodystat® QuadScan 4000

Offering a quick, easy, economical and non-invasive alternative to other methods of fluid assessment and body composition analysis e.g. radioisotope dilution and underwater weighing. The principle of measuring the flow of current through the body (impedance) is dependent on the frequency applied. At low frequencies, the current cannot bridge the cellular membrane and will pass predominantly through the extra-cellular space. At higher frequencies penetration of the cell membrane occurs and the current is conducted by both the extra-cellular water (ECW) and intra-cellular water (ICW).

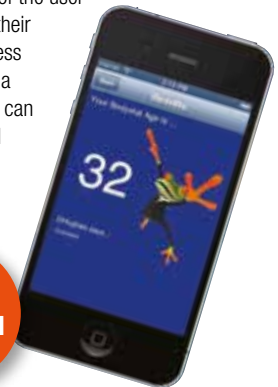
**Product code: 323**



### Bodystat® App

For use with the Bodystat 1500 and the Bodystat 1500MDD, the main aim of the App is to enhance the motivation of the user in adhering to their health and fitness regime. This is a free App which can be downloaded from iTunes.

FREE download



### Bodystat® MultiScan 5000

The MultiScan 5000 is one of the world's leading Bioelectrical Impedance Spectroscopy (BIS) devices available to the medical and research professional. Utilising Cole-Cole Modelling and Bioelectrical Impedance Vector Analysis (BIVA), the MultiScan 5000 instantly creates reports on hydration, lean muscle mass, physiology, general body composition, cellular health and health risks.

**Product code: 1211**

For more information and pricing on all products visit [habdirect.co.uk](http://habdirect.co.uk)



## Bodystat®1500 T

The new touchscreen version of the Bodystat 1500 T analyser offers all the functionality expected from this leading brand, but with the added benefit of an easy-to-use touchscreen. The 1500 T is a handheld, battery operated,

bio-impedance analyser that is lightweight, easy to use and requires no specialist skills. It is non-invasive and measures the impedance value of the body, providing quick and effective analysis of body composition. Whole body analysis, rather than partial body analysis of arms or legs only, is measured for greater accuracy. Bodystat 1500 T has been tried and tested in gyms for over 20 years and users find it an invaluable tool for motivating their clients and getting real long term results, providing clients with a choice of customised reports using the unique

Bodystat Software (Bodystat App, free to download) or an instant printout with the Bodystat bluetooth printer (both optional or included in the new Deluxe starter kit).

### Product codes:

- 111T** Bodystat 1500 T Touchscreen Analyser
- 515** Replacement electrode pads (Pack of 100) (suitable for all Bodystat models)
- 969** Replacement report pads
- 414T** Thermal Printer
- 121T** Bodystat 1500 T Deluxe starter kit

**NEW**  
touchscreen  
model



## Takei Back/leg Dynamometer

For measuring the strength of the back and leg, this provides a base for sure footing, with an adjustable hand-grip chain to accommodate height differences.

- Digital: Range 20-300kg, graduation 0.5kg
- Analogue: Range 0-300kg, graduation 1kg

### Product codes:

**5402** Digital **5002** Analogue



## Takei Hand Grip Dynamometer

A simple and popular test for general strength testing with an adjustable handgrip.

- Digital: Range 5.0-100kg, graduation 0.1kg
- Analogue: Range 0-100kg, graduation 500g

### Product codes:

**5401** Digital **5001** Analogue

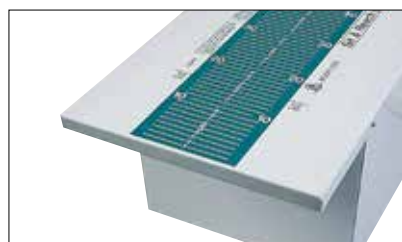
**Best seller**



## Steel Sit and Reach Box

For trunk flexibility measurements. Lockable base. Ideal storage space for mobile screening. Scale 0 - 55cm.

### Product code: LSRBS1



## HaB Essentials Resistance Bands

An economical way of providing resistance training. Strong and versatile. Available in 4 levels of resistance and 2 lengths.

### Product codes:

**15cm wide x 1.2m long**

- BANDLIGHT** Light
- BANDMED** Medium
- BANDHEAVY** Heavy
- BANDXHEAVY** Extra Heavy
- 25 metre roll**
- BANDL25** Light
- BANDM25** Medium
- BANDH25** Heavy
- BANDXH25** Extra Heavy



For prices and more information on all products and accessories visit:  
[habdirect.co.uk](http://habdirect.co.uk)





### Harpenden Caliper

The Harpenden Skinfold Caliper complies with the industry standard for quality and accuracy and is the leading skinfold caliper for skinfold measurements and calculating body fat. It has been used within medical circles for nearly 40 years.

The Harpenden Skinfold Caliper is the only skinfold caliper CE marked under the Medical Devices Directive 93/42/EEC for a Class 1 Device with Measuring Function and is calibrated using masters traceable to National Standards.

- Range = 0 - 80mm
- Graduation = 0.2mm
- Booklet

**Product code: LHSC**



### Harpenden Caliper with Software

This Harpenden Skinfold Caliper includes the latest version of the Harpenden Body Assessment software; software for body fat assessment that uses either the 4 Site Durnin & Womersley system or 3 Site Jackson & Pollock system.

- Range = 0 - 80mm
- Graduation = 0.2mm
- Booklet included
- Software

**Product code: LHSC2**



### Harpenden Skinfold Caliper Kit with Tape & Block

This exclusive Harpenden Skinfold Caliper Kit is available only at HaB Direct and contains the original Harpenden Skinfold Caliper, a Calibration Check Block and our HaB Essentials Anthropometric Measuring Tape, offering great value for money.

- Range = 0 - 80mm
- Graduation = 0.2mm
- Booklet
- Measuring tape
- Calibration block

**Product code: LHSC3**

For more information and pricing on all products visit [habdirect.co.uk](http://habdirect.co.uk)



### HaB Essentials Anthropometric Measuring Tape

- Non-stretch fibreglass
- Retractable
- Range: 0-60 inches/150cms

**Product code: LCR01**



### Goniometer

Transparent plastic 360° scale.

- 12" long
- Calibrated to ISOM (International Standards of Measurement) system

**Product code: LBLP12**



### MIE Clinical Goniometer

Heavy duty, easy-to-read and able to measure all ranges of joint motion.

**Product code: BMCG**

### Small Bone Caliper

Ideal for measuring humerus and femur and other often used measurements in ISAK certifications. It provides accurate measurements with a centimetre and millimetre graduated ruler, a 154mm opening range and 1.5mm screw-type pointers.

**Product code: LSBC**



**NEW**

Includes storage bag



### Segmometer

Used for evaluation of diameters and body segments.

**Product code: CC01**

**NEW**



## Skeleton, medical quality – female

This is a life size, fully articulated model of an adult female skeleton, manufactured to the highest standards.

The bones show the fine surface features and great attention has been paid to details such as tuberosities, notches, etc. The vertebral discs are accurately moulded from a strong flexible material to give a natural appearance. A herniated disc is shown in the lumbar region. The articulation is unobtrusive and gives realistic movement and easy removal of the limbs. Supplied with dust cover and stand. Height 162cm. Standard Quality Male Skeleton is also available.

**Product code:**

**ZJY116M** Skeleton Medical Quality - Female

**ZJY113H** Skeleton Standard Quality - Male



## Set of five joints

A set of 5 life-size models illustrating different types of joint. The examples shown are sutures in the skull; tooth socket attached to a jaw and cut away to show molar roots; ball and socket joint; a flexible cartilaginous joint between two vertebrae; and the tibia-fibula joint, also flexible.

**Product code: ZJY600P**



## Respiratory Organs

The diaphragm shows muscles, tendons and openings for the major vessels and oesophagus. Supplied complete on stand with key card. Size 41 x 23 x 19 cm.

**Product code: ZKJ649D**

**For prices and to see the full range of models and new anatomical teaching aids visit:**  
**habdirect.co.uk**



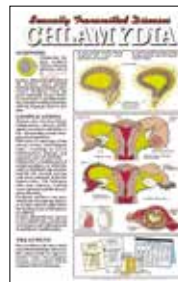
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### Eating disorders

**Product Codes:**  
**ED1** Anorexia  
**ED2** Bulimia

Size  
24"x 36"



### Sexually transmitted diseases series

**Product Codes:**  
**SE1** Chlamydia  
**SE2** Syphilis  
**SE3** Gonorrhoea

Size  
24"x 36"



**More online**

Size  
24"x 36"

### Muscular/ skeletal

**Product Code: MS2**  
Muscular & skeletal system - male



Size  
24"x 32"



### Drug education series

**Product Codes:**  
**D03** Cocaine  
**D04** Alcohol  
**D05** Marijuana  
**D06** Smoking  
**D07** Steroids  
**D10** Heroin  
**D11** Inhalants  
**D13** Ecstasy  
**D14** Methamphetamine

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## Contact our Service Team

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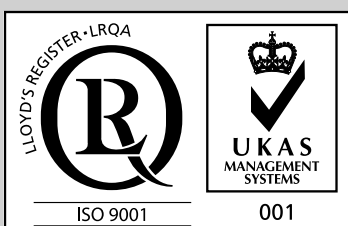
**HaB Direct prides itself in supplying the highest quality products, backed up by unrivalled after sales service and support.**

**We fully understand that it is imperative all of the equipment we supply remains in full working order at all times and is checked and calibrated annually, where necessary.**

### ISO Accreditation

HaB Direct is committed to maximising customer satisfaction by providing impartial advice on what is appropriate for the customer regarding their equipment and consumables requirements, taking into account any regulatory conditions.

To maintain this top class service it is our policy to work to the principles embodied in ISO9001:2015, an accreditation that we have held proudly for 20 years.



### Extended Warranties

HaB Direct offer a range of Extended Warranties on our capital equipment for your peace of mind. Call for details.

### Installation

Some of our larger equipment requires expert installation. Our team are fully trained by the manufacturer to offer installation that is tailored to suit your needs.

### Spare Parts

HaB hold a wide range of spare parts for a variety of our products. Call for a quote.

### Repairs

HaB's fully qualified engineers are trained by our supply partners to offer a full repair service. Call or email our Service Department for a quote.

### Annual Equipment Servicing

Annual Services are now required for most laboratory accreditation schemes. To avoid time delays and equipment downtime, please ensure to book ahead of the annual due date.

### Health and Safety

With current legislation for Health and Safety being of the utmost importance, we strongly recommend that your equipment is regularly serviced. This will also maximise the life of your products and provide better value for money.

### Product Training

We offer on-site product training for your staff with our experienced product support specialists after the equipment installation is complete.

### Product Servicing and Maintenance

HaB Direct offers a vast range of products and many of them require regular servicing to keep them functioning at their best.

With such a wide range of equipment we offer a variety of different service options.

Our service engineers are highly skilled and fully trained by the relevant manufacturers, giving you complete peace of mind, whether it is for an annual service or to repair a damaged item.



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