get the measure

CRANLEA

product
range

Cranlea and Company

Cranlea are the premier suppliers of medical diagnostic
equipment. Our many years of experience help us to provide
our customers with what they need, when they need it
and at the best price.

A wealth of information is available to help you make the
right choice for your needs. We believe in service first and
foremost, from advice to order information and prompt,
no nonsense, delivery.

We hope you find our new brochure useful and informative.
Any questions not answered in this document can be quickly
and professionally supplied by trained operatives who are
waiting for your call.

Alternatively you can visit our website or those of our
partners (as indicated below) for more in depth detail on
any product that you are particularly interested in.

We look forward to working with you.

Our partners

Bod Pod	www.bodpod.com
Brower	www.browertiming.com
Cortex	www.cortex-medical.de
Hans Rudolph	www.rudolphkc.com
Hosand	www.hosand.it
Lode	www.lode.nl
Mega	www.megaemg.com
Woodway	www.woodway.com

Cranlea   **www.cranlea.co.uk**

to call us **0121 472 0361**

How to find us

Via M6

Junction 6
A38 South to Selly Oak
A4040 (Oak Tree Lane/Linden Road)
3rd left into Acacia Road
1st left into Sandpits

Via M42

Junction 2
A441 to Cotteridge
A4040 past Cadbury World
2nd right into Acacia Road
1st left into Sandpits

Via M5

Junction 4
A38 to Birmingham
Right at Bournville Police Station
1st left into Woodbrooke Road
Left at T-Junction onto A4040
1st right into Acacia Road
1st left into Sandpits
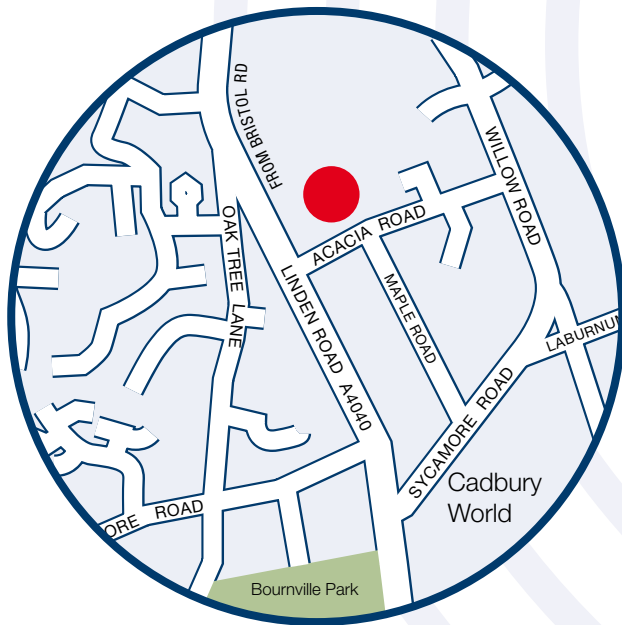
Cranlea & Company

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Fax
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Email
info@cranlea.co.uk

contents

ergometers

**Lode Angio
(Arm) Ergometer**

"We have found
the equipment to
be robust, reliable
and, though simple
in its design, very
well engineered."

*Mr Paul Smith
University of Greenwich*

Lode

(1) Lode Angio – Arm Ergometry

Perfectly suited for arm ergometry applications in Sports Medicine, Physiotherapy and Rehabilitation.
Workload of 7-1000 watts allows range of applications and settings.
Equipped with both analogue and digital interfaces, can also be supplied with a variety of accessories.

Dimensions   73 x 42 x 54cm
Weight   33kg
Workload   Hyperbolic 7-750 watts
Peakload   1000 watts
Rpm independent   30 - 150 rpm
Accuracy   < 3%

Order code   LOD-917901

Options

Programmable Control Unit
Programme up to 50 User-defined protocols.
Possible parameters - ramp, step, linear, torque and heart rate.
Additional display facing the operator.
Infra-red port for wireless communication.

Blood Pressure Module
Accurate stress testing blood pressure monitor with Dimensional K-sound Analysis (DKA).

Further options
Adjustable cranks, Pedal shoes, Handgrips, Rpm set and Heart rate module.

Options Order codes
LOD-928812 Programmable control unit
LOD-928842 Programmable control unit with SpO_2 and heart rate
LOD-928816 Blood pressure module
LOD-917804 RPM set
LOD-917810 Heart rate module
LOD-917803 Pedal shoes
LOD-917812 Handgrips
LOD-906804 Adjustable cranks 80-170mm (set)
LOD-906805 Zero watt start up system

(2) Lode Angio with Static Wall Mount

Supplied with a wall mounting bracket and handgrips as standard.

Order code   LOD-917902

(3) Lode Angio with Electrically Adjustable Wall Mount

Vertical movement range of 70cm with remote control adjustment.
Supplied with handgrips and can be used in various applications.
Subjects can be tested in wheelchairs or in an upright position.

Order code   LOD-917903

(4) Lode Angio with Automatic Stand

Free-standing mount, including handgrips, gives optimal flexibility and adjustability.
Electrically adjustable height for ease of use, over a range of 140cm - suitable for arm ergometry, leg ergometry and testing wheelchair subjects.
Optional reclining chair with electrically variable positioning and adjustable backrest offers a wide range of ergometry testing.

Order codes
LOD-917904   Lode Angio with automatic stand
LOD-917813   Electrically adjustable chair for automatic stand

(1)

System Options

Programmable control unit   Handgrips   RPM Counter

Standard Angio supplied without handgrips.

(2)   (3)   (4)

⑤ **Lode MRI Ergometer**

Perform exercise tests within the magnet.
Table fixed ergometer ensures minimal time between stress induction and imaging.
Can be used for both cardiac examinations and spectroscopy.
Supplied with pedal, circular or push/pull exercise movement for cardiac MR examinations.
Supplied with up/down movement for spectroscopy.
Can be used with GE, Philips, and Siemens MR scanners.

Please contact sales team for order information

⑥ **Lode Angio with Mechanical Cardiac Stress Table**

Suitable for ergometry in combination with the Angio.
Mechanically adjustable for seated or supine patient positions.
Perfect for examinations as the Angio folds away when not in use.
Adjustable back support panel, shoulder support and handgrips.
Adjusts up to 180 degrees to suit subject leg length.

Dimensions	207 x 92 x 76cm
Angle adjustment of back panel	0 – 33 degrees
Adjustability range of leg length	40cm

Order code   LOD-924900

⑦ **Lode Angio Echo Cardiac Stress Table**

Remote control adjustment for supine positioning with an additional 45 degrees rotation over the longitudinal axis.
Removable back support section (near the heart) allows better view from the rear.
Adjustable back/shoulder supports and handgrips.
Adjustable up to 180 degrees to suit subject leg length.

Dimensions	218 x 100 x 75cm
Patient Capacity	200kg
Angle adjustment of back panel	0 – 33 degrees
Height of platform at 0 degrees	60cm

Order code   LOD-927900

⑧ **Lode Angio Nuclear Imaging Table**

Various back and leg support adjustments and the movement range of the Angio ergometer give optimal patient comfort.
Design stability and construction make it comfortable to use for both the test subject and the operator.
Can be easily combined with a variety of measuring methods; ECG recordings, ultrasound scanning and nuclear examinations.
The back support of the table is permeable to X-rays.

Dimensions	204 x 60 x 85cm
Power consumption	200VA
Weight	105kg
Material	trespa (permeable to X-rays)

Order code   LOD-907900

ergometers

![Lode logo]

Programmable
control unit

1 Lode Corival

Modern ergometer with an ergonomic, stable design and new operation methods for ease of use.
Simplified keyboard with 3 button access to full menu functions.
Adjustable display parameters with five pre-programmed languages to suit individual requirements.
Extended load range of 7–1000 watt for a variety of applications.

Dimensions	115 x 60 x 114cm	
Weight	56kg	
Power consumption	130 VA	
Workload range	Hyperbolic	7-750 watt
	Linear	7-750 watt
	Increments	1 watt
	Peak Load	1000 watt
Workload accuracy	7 - 100 watt	± 3W
	100 - 500 watt	< 3%
	500 - 1000 watt	< 5%

Order codes

LOD-906900	Lode Corival ergometer 1000 watt
LOD-929900	Lode Corival recumbant
LOD-906905	Lode Corival nuclear design

Options Order codes

LOD-928810	Programmable control unit
LOD-906805	Zero watt start up system
LOD-928840	Programmable control unit with SpO_2 and heart rate
LOD-928815	Blood pressure module
LOD-928824	Heart rate option
LOD-906804	Adjustable cranks 80 - 170mm (set)
LOD-906806	Shortened saddle shaft
LOD-906808	Pedal strap extension
LOD-ERGO003	Fold away demonstrator Corival

②

ergometers

② **Lode Excalibur Sport**

The newly designed Excalibur Sport ergometer meets the latest requirements of modern sports medicine and research.

Since athletes are becoming more powerful and testing now more advanced than ever, this ergometer has been developed for extreme workloads up to 2500 watt.

Workload control

The peak load of 1500 - 2500 watt can be maintained for a maximum of 6 minutes.

The standard external control unit allows the workload to be controlled in various modes -

- Isokinetic (fixed rpm)
- Hyperbolic (rpm independent)
- Linear (rpm dependent)
- Torque (fixed torque)
- Heart rate (fixed heart rate - optional)

Adjustability

Versatile positioning of the test subject with increased adjustability of the handlebar and saddle -

- Handlebar can be adjusted both horizontally and vertically
- Saddle has horizontal, vertical and angle adjustment

The height of both the handlebar and saddle can be positioned by Lode's unique one-touch adjustment handle.
In addition, it is now possible to read out the most important parameters of the seating position of the test subject on the display of the control unit.

Order code   LOD-925900

Lode Excalibur Sport Options

The Excalibur Sport can be extended in a variety of ways.

Options

LOD-928811	Programmable control unit
LOD-928841	Programmable control unit with SpO$_2$ and heart rate
LOD-925805	Zero watt start up system
LOD-928815	Blood pressure module
LOD-928826	Heart rate option
LOD-925804	Paediatric cranks - easily adjustable range 80 -170mm, increments of 10mm steps
LOD-401068	Paediatric saddle
LOD-925806	Sports cranks - step-less adjustment, range 135-185mm, indication click at each 2.5mm step
LOD-925801	Comfort set standard handlebar and saddle
LOD-911817	Wingate software module with correction for moment of inertia Performs Wingate sprint test in the constant torque mode

① Lode Pedal Force Measurement

The Excalibur Sport Pedal Force Measurement system allows continuous registration of forces exerted on left and right crank with specific reports and analysis.
Numeric data such as peak values, averages, absolute maximum, angle, total efficiency, rpm and left/right ratio are registered and saved.
Export to statistical programmes with the optional LEM Export Module.
Protocols can be programmed based on time intervals (maximum 60 minutes) enabling continuous registration of pedal force.

LEM software is included as standard.

Order code   LOD-925909

Lode Ergometry Manager (LEM)

Windows based software package for controlling Lode ergometers and monitoring test subject parameters.
Software enables operator to create protocols, control ergometers, visualise, print, save and analyse ergometry data.
Programme also provides a patient database.
Test and train in various rehabilitation settings, sports medicine, physiotherapy and research environments.

Order codes

LOD-928902	LEM PC bike control
LOD-928903	LEM Multi bike control (1 PC controls up to 16 ergometers)
LOD-928908	LEM Export module
LOD-928909	LEM Astrand test module

② Lode Portable Calibrator

Portable unit, easy to install and convenient to work with.
Supplied with two versatile crank adapters and height adjustment blocks to allow connection to a variety of ergometers.
PC controlled via an RS232 connection.
Data can be stored and printed from the PC.

Order code   LOD-919900

Management & Measurement

MONARK

1 **Monark Pendulum 828E Ergometer**

The most widely used ergometer for fitness tests and workouts.
Easy to calibrate and just as easy to check when in use.
Complete with chest belt and PC software.

Weight   52kg
Length   1120mm
Height   890-1130mm (at handlebar) 890-1120mm (at seat)
Width   530mm (handlebar) 460mm (feet)

Order code   MON-828E

2 **Monark Ergomedic 839E Ergometer**

Precise user-friendly ergometer providing a constant workload
independent of pedal speed. Complete with chest belt, PC
software and calibration weight.
Features complete reports for fitness tests, pulse training
and work tests via ECG or PC.

Weight   56kg
Length   1150mm
Height   760-1135mm (at handlebar) 800-1120mm (at seat)
Width   530mm (handlebar) 460mm (feet)

Order code   MON-839E

3 **Monark Weight Ergometer 874E**

Reliable, easy to use for bike for all types of fitness testing.
The patented weight basket system requires no calibration as
the precision weights ensure that the workload is correct.
Complete with chest belt and PC Software.

Weight   57kg
Length   1120mm
Height   890-1130mm (at handlebar) 800-1120mm (at seat)
Width   530mm (handlebar) 460mm (feet)
Supplied with a set of weights   4 x 1kg, 1 x 0.5kg, 4 x 0.1kg

Order code   MON-874E

4 **Monark Sprint Ergometer 884E**

A specially adapted ergometer for effective training with direct
feedback, designed to optimise interval training.
Complete with chest belt and PC software.
Can also be used as a standard weight ergometer.

Weight   63kg
Length   1120mm
Height   890-1130mm (at handlebar) 800-1120mm (at seat)
Width   530mm (handlebar) 670mm (feet)
Supplied with a set of weights   8 x 1kg, 1 x 0.5kg, 4 x 0.1kg

Order code   MON-884E

5 **Monark Peak Ergometer 894E**

An ergometer designed for anaerobic testing, that also works
as a traditional weight ergometer. Features an RPM controlled
release of weight basket and test duration of up to 99 minutes.
Complete with chest belt and PC software.

Weight   65kg
Length   1120mm
Height   890-1130mm (at handlebar) 800-1120mm (at seat)
Width   530mm (handlebar) 670mm (feet)
Supplied with a set of weights   8 x 1kg, 1 x 0.5kg, 4 x 0.1kg

Order code   MON-894E

Additional weights can be purchased separately.

ergometers

MONARK

Monark Sparr Rehab 808/809

Intended for purposes such as stimulating movement, the rehab features a smooth pedalling action at light loads as well as a low frame to provide easy access.

Weight 32kg
Length 890mm
Height 1020mm (at handlebar) 670-1000mm (at seat)
Width 530mm (handlebar)

Order codes

MON-808 - fixed wheel
MON-809 - free wheel

② **Monark Cardio Comfort 837E Ergometer**

Based on Monark's classic concept, combining quality, comfort and function.
Easy access, with an attractive design provides a recumbent for both health care and rehabilitation.

Weight 70kg
Length 1700-2000mm (varies with adjustable front unit)
Height 800mm (at front) 800mm (at seat)
Width 530mm (handlebar)

Order code   MON-837E

③ **Monark Compact Rehab 871E**

A small, reliable arm and leg trainer which is easy to use offering smooth operation for both warm up and exercise testing. The trainer is easily portable and ideal for use in rehabilitation.

Weight 25kg
Length 600mm
Height 530mm
Width 180mm (front feet) 450mm (rear feet)

Order code   MON-871E

④ **Monark Rehab Trainer 881E**

A versatile arm and leg ergometer with the potential to suit most exercise applications.
The crank arms are individually adjustable and the unit can be calibrated to offer precise work loads.

Weight 22kg
Length 540mm
Height 550mm
Width 470mm

Order code   MON-881E

⑤ **Monark Cardiac Rehab 891E**

A new arm ergometer that satisfies the requirements for upper body fitness and endurance testing. Monark's renowned weight basket system has been specially adapted for use in arm ergometry. Ideal for rehabilitation, exercise testing and use with disabled athletes.

Weight 60kg
Length 1500mm
Height 1660mm
Width 700mm
Supplied with a set of weights 8 x 1kg, 1 x 0.5kg, 4 x 0.1kg

Order code   MON-891E

OTHER ERGOMETERS

1

1 Seca CT100 Electronic Ergometer

This cycle ergometer derives all the important information from exertion tests without being affected by a subject's speed fluctuations. Starting performance and exertion at time levels can be programmed on an individual basis and can be changed at any time during the exercise test. The Cardiotest 100 can be directly connected to standard ECG equipment.

Order code **CT 100**

2 Cyclus 2

This high performance ergometer combines the most modern technologies with a wide range of individual applications providing a perfect combination for training and fitness analysis, using the riders own bike. Conconi test, OBLA test, maximum cadence test, maximum strength test, CPI test and free programmable test options, freely determinable recovery heart rate period, adjustable mounting, special flexible suspension allows natural degree of side-to-side movement when pedalling, use of own gear system, rigid motion for track cycles, flywheel for realistic stimulation of movement of inertia, maximum load up to 3,000 watts and precise torques.

Order code **CYCLUS 2**

2

3 K1 Ergo Kayaking Ergometer

An air-resisted flywheel driven by a cord mechanism extending from the extremities of the paddle closely simulates the paddling action and the effort required to overcome water resistance. With each stroke of the paddle the cord transfers the work done by an athlete to a rotational force on the flywheel.

Order codes
K1ERGOT Training Kayak Ergometer with on-board work monitor
K1ERGOL Laboratory Kayak Ergometer with sensors & interface
K1ERGOLL Laboratory Kayak Ergometer with load cell

3

4 Concept 2 Rowing Ergometer

Designed to offer you high quality exercise for the rest of your life. Rowing exercises and strengthens both upper and lower body with a motion that is smooth, rhythmic and impact-free. Its' wide range of motion promotes flexibility in your muscles and joints. The Concept 2 Indoor Rower is an extremely versatile machine that can be used by people of all ages and fitness levels.

Order codes
CONCEPT 2 Rowing Ergometer
CONCEPT HR Heart rate receiver (excludes transmitter)
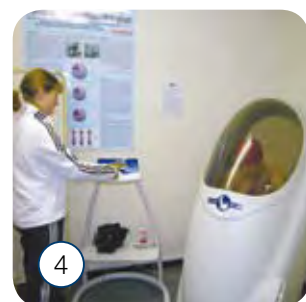**CONCEPT SLIDE** For realistic rowing action

4

ergometers

LABORATORY INSTALLATION

Cranlea are able to offer an expert service assisting all customers in fully equipping their laboratories. From Blood Lactate to Treadmills, Body Composition to Ergometry, Cranlea offer a complete range of products to suit all applications and can assist you in the design and set-up of your laboratories.

1 Exeter University

Latest installations include - Multiple Cortex metabolic CPX systems
Excalibur Sport ergometers
Body Composition analysers
Woodway treadmills

2 Leeds Metropolitan University

Latest installations include - Woodway ELG treadmills
Activity monitors
Speedtrap timing systems
Multiple Cortex metabolic CPX systems

3 Thames Valley University

Full Lab Set-Up including - Cortex metabolic CPX systems
Woodway ELG treadmills
BodPod
Multiple Douglas Bag stations

4 Newman College

Latest installations include - Mega EMG system
Mega 3D Motion analysis system
BodPod
Cortex metabolic CPX systems
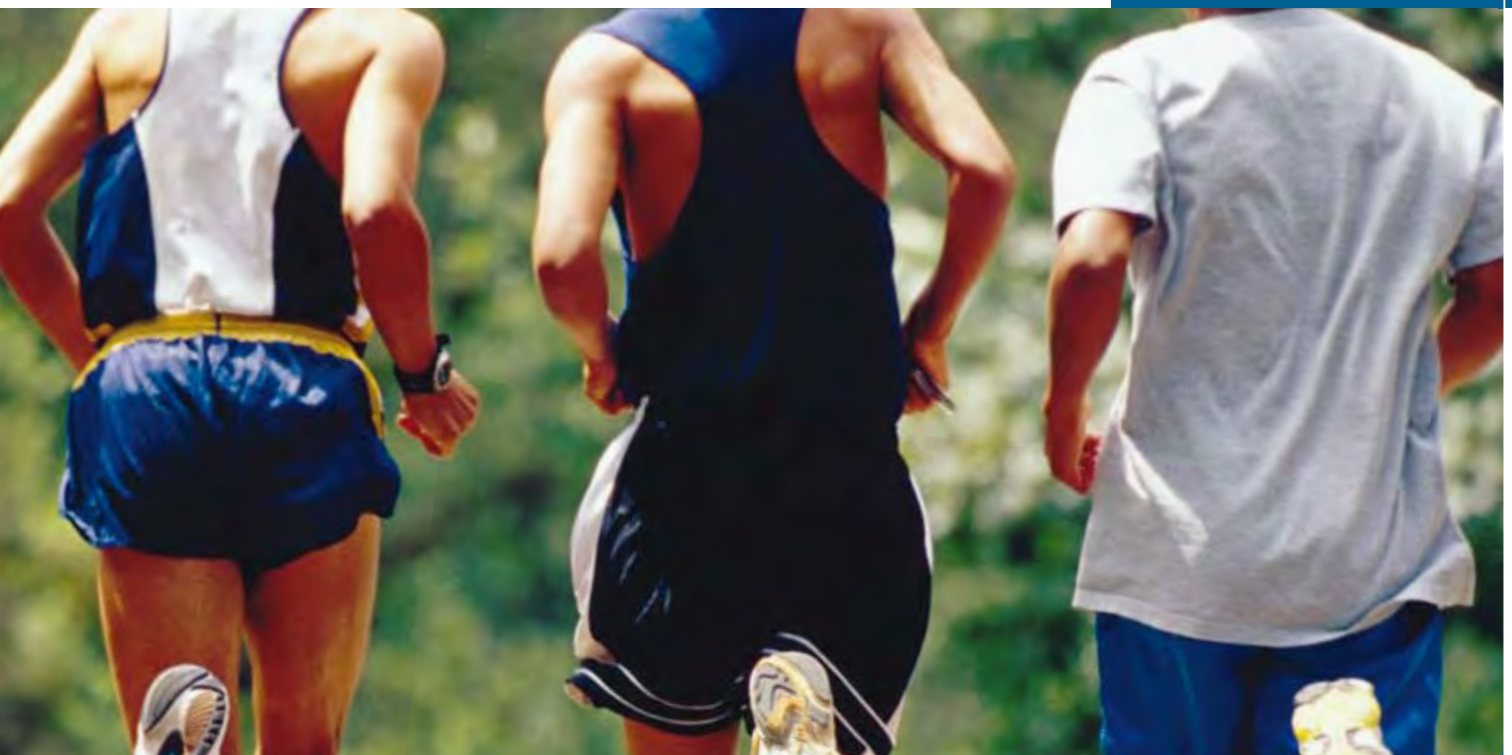
treadmills

"Our Woodway
treadmills and the
service provided
with them have not
failed us in any way
under both research
and teaching loads."

*Dr. Samantha Fawkner
Lecturer in Sport
and Exercise Science
Heriot-Watt University
Edinburgh*

① Lode Valiant Treadmill

Smooth acceleration and continuously adjustable in a range of 0.5 - 20 km/h and can be controlled by external equipment. Elevation of 0-25%, perfect for use in cardiology, pulmonary function, physiotherapy and sports medicine.

Running surface   150 x 50cm

Order code   LOD-932900

② Lode Valiant Rehab Treadmill

Smooth acceleration and continuously adjustable in a range of 0.1 - 12 km/h.
Can be used with the adjustable side handrails which are adjustable in height (791 - 954mm) and width (440 - 975mm). These features together with the optional heart rate controlled protocols make this treadmill perfectly suitable for rehabilitation purposes.
Optional rear entrance plate provides easy access.

Running surface   150 x 50cm

Order code   LOD-932901

Options Order codes

LOD-932801	Heart rate
LOD-932802	Rear elevation 10% mechanical
LOD-932803	Rear elevation 10% electrical
LOD-932804	Extra emergency stop
LOD-932805	Entrance plate for easy step up
LOD-932806	Anti slip strips
LOD-932810	Fixed side handrails
LOD-932811	Adjustable side handrails
LOD-932812	Pediatric front handrails
LOD-932813	Adjustable pediatric side handrails
LOD-932814	Arm support
LOD-932821	Safety belt and fall stop
LOD-932822	Zero gravity system

③ Lode Valiant Plus

A newly designed treadmill offering the same high standards as the standard Valiant together with extra speed and a larger running surface.

Running surface   170 x 60cm
Speed   0 - 25 km/h
Elevation   0 - 25%

NOT ILLUSTRATED

Order code   LOD-932902

④ Lode Valiant Special

Lode have the capability to make specialist treadmills to suit any requirement.
Running surfaces can be made to your specifications up to 2.4m wide.

Please contact our sales team to discuss your specific requirements.

WOODWAY®

treadmills

① **Woodway Wide Path Treadmill**

Running surface	117 x 55cm
Speed	0 - 17.5 km/h, zero start
	0.1 km/h resolution
Elevation	0 - 15%
User capacity	225kg (running)
	360kg (walking 6 km/h max)

Contact heart rate
Polar monitor circuitry - heart rate display
Dynamic / Manual (non-motorised) mode

Options
Personal Trainer Controller / Polar monitor chest strap
RS232 serial interface with MedPro software

Higher speed range	0 - 24 km/h
Reverse	0 - 8 km/h

Order code
Wide Path   Treadmill with 117 x 55cm track

② **Woodway Mercury Treadmill**

Running surface	157 x 43cm
Speed	0 - 17.5 km/h, zero start
	0.1 km/h resolution
Elevation	0 - 15%
User capacity	225kg (running)
	360kg (walking 6 km/h max)

Contact heart rate
Dynamic / Manual (non-motorised) mode

Options
Personal Trainer Controller / Polar monitor chest strap

Elevation options	0 - 25% **or** −3 - 22%
Higher speed ranges	0 - 24 km/h, 0 - 26.5 km/h,
	0 - 29 km/h
Reverse	0 - 8 km/h

RS232 serial interface with MedPro software

Order code
Mercury   Treadmill with 157 x 43cm track

③ **Woodway Desmo Treadmill**

Running surface	157 x 55cm
Speed	0 - 20 km/h, zero start
	0.1 km/h resolution
Elevation	0 - 15%
User capacity	225kg (running)
	360kg (walking 6 km/h max)

Contact heart rate
Polar monitor circuitry - heart rate display
Dynamic / Manual (non-motorised) mode
Unitised steel frame - integrated silver powder coated side handrails

Options
Personal Trainer Controller / Polar monitor chest strap

Elevation options	0 - 25% **or** −3 - 22%

RS232 serial interface with MedPro software

Higher speed ranges	0 - 24 km/h, 0 - 26.5 km/h,
	0 - 29 km/h
Reverse	0 - 8 km/h

All black unit
LCD TV (13" or 15" does NOT require seperate power source)

Order code
Desmo   Treadmill with 157 x 55cm track

The complete range of Woodway treadmills can be used by subjects up to 225kg (running) and up to 360kg (walking).

All Woodway treadmills come with a five year guarantee on the drive, motor and belt. They also offer a three year warranty on all other components.

13

WOODWAY®

① **Woodway ProLift 360**

Unique pneumatic system provides unweighting up to 160kg, with full 360° rotation for the user.
Proven therapeutic and sports conditioning application which combines the Pneumex lift system with the versatility of the Woodway treadmill.

Maximum height	2.9m
Minimum height	2.4m
Weight capacity	Up to 160kg
Pneuvest harness sizes	x-small 18" - 22"
	small 22" - 32"
	medium 32" - 44"
	large 44" - 57"
	x-large 57" - 67"

Order code
ProLift 360 Unweighting system

② **Woodway Elite Treadmill**

Contact heart rate.
Manual (non-motorised) mode.
Elite Controller with 14" full colour LCD touch-screen display.
Heart Rate controlled workouts (incline only, speed only or speed and incline combination).
Fourteen pre-programmed workout protocols.

Running surface	157 x 55cm
Speed	0 - 20 km/h, zero start,
	0.1 km/h resolution
Elevation	0 - 15%
User Capacity	225kg
Belt Reverse	0 - 8 km/h

Options

Higher speed range	0 - 24 km/h
Higher elevation	0 - 25%
Polar heart rate chest strap	
Intra-treadmill networking	
Coaches station software	

Order code
Elite Treadmill with 157 x 55cm track

③ **Woodway Desmo Pro Treadmill**

Contact heart rate.
Manual (non-motorised) mode.
Side handrail control of speed, elevation and stop.
Standard Controller which includes - multiple readout displaying time, speed, elevation, distance, pace, calories and METs.
Emergency stop magnet and safety lanyard.

Running surface	Pro 157 x 70cm
	Pro XL 188 x 70cm
Speed	0 - 26 km/h, zero start,
	0.1 km/h resolution
Elevation	0 - 25%
User Capacity	225kg
Belt Reverse	0 - 8 km/h

Options

Personal Trainer Controller	
Polar monitor chest strap	
Higher speed range	0 - 32 km/h
RS232 serial Interface with software	
Single side handrail	

Order codes
Desmo Pro Treadmill with 157 x 70cm track
Desmo Pro XL Treadmill with 188 x 70cm track

④ Woodway Force Treadmill

Athletic speed and power training system.
Virtual sprinting, variable resistance interval training, while measuring speed, time, distance, heart rate and work measured in watts.
Combines Woodway's legendary shock absorption with a tether and variable resistance brake creating a functional and sport specific trainer.

Manual and programmable versions available.
"Force 2.0" With horizontal force measurement.
"Force 3.0" Top of the range with load cell measurement of both horizontal and vertical forces.

Order codes

Force 1.0 Treadmill with programmable controller
Force 2.0 Treadmill with horizontal force measurement
Force 3.0 Treadmill with horizontal and vertical force measurement

④

⑤ Woodway ELG Treadmill

The ELG range is the preferred choice for top sports research laboratories worldwide.

Features -
100% accuracy Even under extreme loads the non-slip, tooth belt driven surface guarantees exact measurements.
No overheating The flexible surface runs on 200 ball bearings.
Model options with track widths ranging from 55 - 90cm.

All models have infinite speed adjustment up to 40 km/h with elevation of 30% on the ELG and 25% on the XELG.
All models supplied with in-built safety measures - emergency cut off switches and overhead stop system.

Options
Downhill inclination 30% maximum
Frame for mounting overhead stop system
Wheel-chair clamp
Pit-installation

Order codes

ELG 55 Treadmill with 201 x 55cm track
ELG 70 Treadmill with 201 x 70cm track
ELG 90 Treadmill with 201 x 90cm track
XELG 70 Treadmill with 252 x 70cm track
XELG 90 Treadmill with 252 x 90cm track

All ELG treadmills require 3-phase electrical supply. For further information please contact our service team.

⑤

⑥ Woodway Blade

Specialised treadmill designed to increase and maintain speed, correct skating mechanics, improve movements, stride length and stride frequency.
May be used for many other applications

Surface dimensions	2.1m x 2.4m (length x width)
Speed range	-8 to 24 km/h
Elevation	-5 to 35%
Handrail diameter	50mm
Overall size	2.44 x 2.92m
Approximate weight	1365kg

NOT ILLUSTRATED

Order code **Blade** Training Treadmill

Woodway Environmental

The testing of athletes in extreme conditions using environmental chambers is now widespread and equipment must be designed to withstand the dramatic changes in temperature and humidity. Woodway offer both the PPS and ELG range of treadmills specifically designed for use within this field. In this harsh environment Woodway treadmills offer the solution to all your testing needs.

For further details please contact our sales team on 0121 472 0361.

treadmills

(1)

• *Treadmill shown with optional parallel bar handrails*

(2)

(3)

(1) Woodway PPS Treadmill

The basic PPS facilitates virtually every application in the area of motor activation and performance diagnostics.
Perfect for use in rehabilitation, physical therapy, orthopaedics, and sports medicine.
PPS55 models feature 20 km/h speed and 20% elevation.

Options
Higher speed and elevation (25km/h / 25%)
Parallel bar handrails with spring technology and simple button control to adjust the side rail height
(Option available for all PPS and LOKO models)
Touch-screen programmable controller
Dual elevation system for downhill protocols
Arm supports or combined arm and under arm supports

Order code

PPS 43Med	Treadmill with 157 x 43cm track
PPS 55Med	Treadmill with 157 x 55cm track
PPS 70Med	Treadmill with 157 x 70cm track

(2) Woodway LOKO System

Base model for effective Locomotion Therapy on a treadmill.
An "open system" that continually develops and integrates the latest advances in research and therapeutic practice.
Can integrate other external systems such as "functional electrical stimulation" and has even expanded the system for automatic therapy.

Order codes

LOKO S55	Therapy system with 157 x 55cm track
LOKO S70	Therapy system with157 x 70cm track

(3) Woodway HELP System

The new LokoHelp system is specifically designed for rehabilitation purposes. The system allows controlled training intervals, more frequent treatments and therefore accelerated therapy results.
The patented WOODWAY slat-belt technology guarantees a non-slip drive mechanism and an optimal shock-absorbing running surface that absorbs 90% of the shock at the point of impact and allows for less stress on the ligaments, tendons, and joints.

Cardiovascular
and Resistance
Training can
transform your
physical appearance
and improve
both your health
and sporting
performances.

MONARK

1 **Monark 827E Cardio Care**

Specifically designed for intensive use in
institutions and gymnasia.
Electronically measured rpm
Measures heart rate, exercise time, target speed and
distance in km/miles per hour.

Order code **MON-827E**

2 **Monark 915E Ergo Bike**

Rugged, functional and compact the 915E accurately measures
heart rate, speed, distance, time and energy consumed.
Makes personal fitness training or home monitoring of prescribed
cardiovascular fitness programs simple and enjoyable.
Includes a meter showing both resistance and calorie
consumption at 60 and 70 pedal revolutions per minute and
conversion table for reading watts at other rpm´s.
Electronic readouts of time, heart rate, speed, distance and rpm.

Order code **MON-915E**

3 **Monark 736 Energy Bike**

Energy Cycling from Monark.
Ride with your team of 10 - 20 people.
Low impact, intense cardiovascular workout guaranteed
to burn calories.
Unique braking system - smooth for gradual resistance
changes and can also be used to stop immediately for the
rider's convenience and safety.

Order code **MON-736**

CONCEPT

① Concept 2 Dyno

Air resistance principle of the Indoor Rower applied to strength training. Three core exercises - Leg Press, Bench Press and Bench Pull. The power produced by a muscle isn't constant throughout its contraction, traditional weight training is limited to the maximum weight that can by lifted at the weakest point in the muscle contraction. Dynamic Strength Training enables muscles to be fully challenged during the lift, as resistance is created in dynamic response to effort. Can be used for strength training, strength testing, circuit training or rehabilitation.

Order code   CONCEPT DYNO

DIAMONDBACK

② Sapilo Work Bike

Built to withstand very heavy use, it requires no electrical supply and is designed to deliver a sophisticated range of feedback. Simple manual start, time (duration of cycle), distance of cycle, heart rate training, variable magnetic resistance, neoprene handgrips, easy adjust seat, 30kg flywheel with safety guard, silent ride, low maintenance.

Order code   SAPILO WB

③ Diamondback Elliptical Trainers

850Er
Has unique features like hinged comfort foot pads and grips, plus the longest stride of any competitively priced model. Featuring the same mechanics, footpath, Q-factor, and stride length of the 1180Er, the 850Er offers terrific value.

Includes - 5 LED data displays, heart rate control programme, and the classic programs (hill profile, random) plus custom and target heart rate control.

950Er
Using the same frame and mechanics as the 1250Er - the 950Er has the programming and patented linkage to give you your best workout yet.

The console features hands free heart rate receiver, 5 data window displays and 16 levels of resistance.
Ultra large cushioned footpads and ergonomically positioned hand rails (with custom padded grips) give the 950Er easy to feel touch points.

1180Er
Takes every key mechanical element in a rear drive elliptical and refines it, mechanically and with programme features. Hinged footplates enhance Diamondback's patented footpath for comfort and a smoother, easier motion.

The console packs every conceivable notion giving you limitless options to vary your workout.

1250Er
Adjustable elevation emulates stepping or uphill jogging - giving you virtually 2 machines in one.

Main functions include - 20 levels of intensity along with 15 different preset programmes along with unlimited variables in random mode.

Order codes
DB-850Er Light use   **DB-950Er**   Medium use
DB-1180Er Heavy use   **DB-1250Er** Heavy use

cardiovascular & resistance training

DIAMONDBACK

① Diamondback Recumbent Bike

800Rb
The 800Rb has an upgraded console which includes 16 levels of resistance, with 2 interactive heart rate programmes. The oversized console features super bright LED indicators, upgraded data window readouts, plus on the fly program and resistance adjustment.

1150Rb
The 1150Rb features a complete redesign of the console with alpha-numeric display, scrolling read out, plus 4 window data presentation.
More key features: Improved control over workout intensity and heart rate control with our Polar compatible heart rate chest strap included, plus 8 pre-set and 'save' functions! Combined with all our other advanced features the 1150Rb will help you reach your fitness goals effectively and comfortably.

Order codes
DB-800Rb   light/medium use
DB-1150Rb   heavy use

② Diamondback Stepper

600ES
Constant heart rate quick start programme for faster, more effective workouts, an advanced electronically controlled braking system with 16 levels of resistance intensity and a bright, easy-to-read console.
Intended for light/medium institutional use.

1100ES
From the Hand-Pulse and Chest Transmitter heart rate control system, which precisely monitors the heart rate zone to ensure safety ranges, to the METs programme which automatically adjusts the resistance to ensure control of metabolic rate, the range of features are astounding.
Intended for heavy institutional use.

Order codes
DB-600ES   light/medium use
DB-1100ES   heavy use

③ Diamondback Upright Cycle

800Ub
The 800Ub features an upgraded console which includes 16 levels of resistance, with 2 interactive heart rate programmes. The oversized console features super bright LED indicators, upgraded data window readouts, plus on the fly program and resistance adjustment.

1150Ub
The 1150Ub's improvements go far beyond look and feel. If you demand light institutional quality equipment for your home gym, nothing will beat the merits found with the 1150Ub. The 1150Ub features a complete redesign of the console with alpha-numeric display, scrolling read out, plus 4 window data presentation.
1150Ub feature upgrades - Improved control over workout intensity and HR control with our Polar heart rate chest strap included, plus 8 pre-set and 'save' functions.

Order codes
DB-800Ub   light/medium use
DB-1150Ub   heavy use

Free weights A range of individual items or complete packages including custom built storage rack. Available in cast, chrome or rubber coated with engraved end weight and knurled grip all supplied with storage rack.

Order codes

CR1   Dumbells 1kg to 10kg   **CR2** Dumbells 2.5kg to 15kg (6 pairs) Barbells 5kg to 30kg (6 bars)
CR4 Dumbells 2.5kg to 25kg (10 pairs cast, rubber or chrome)   **CR5** Barbells 5kg to 30kg (6 bars cast, rubber or chrome)

Benches & Units

Manufactured to withstand the toughest of workouts.

Order codes

B00	Roman Chair
B01	Flat Bench
B02	Flat Bench with Catchers
B03	Adjustable Incline Bench
B04	Adjustable Incline Bench c/w catchers
B05	Adjustable Incline/Decline Bench
B06	Adjustable Incline/Decline with catchers
B07	Olympic Bench with catchers
B08	Olympic Flat Bench with catchers
B09	Olympic Decline Bench with catchers
B10	Abdominal Bench fixed angle
B10/1	Abdominal Bench
B11	Preacher Curl Bench
B12	Olympic Training Bench
B13	Hip Flexor with dipping handles
B14	Twistaway
B15	Hyperextension seat and leg (adjustable)
B15/1	Back Extension
B16	Olympic Walk in stands with safety rails
B17	Hip flexor/Dipping/Chinning combination
B17/1	Dipping/Chinning combination
B18	Pair of Squat Stands heavy base
B19/20	Abdominal Board with Ladder Rack
B21	Abdominal Cradle
B22	Adjustable Stool with Foot Rests
B23	Seated/Standing Twistaway
B24	Squat Cage (power rack)
B25	Super Bench fully adjustable
B26	Shoulder Press Bench 85° with Catchers
B27	Dipping/Abdominal Board Combination

Single Station Free Standing Units Economy Range

Nylon or nylon coated wire cables, Cam transmission, Locking key weight selection, Spring plunger adjustments, Mounted exercise charts. Optional encased weight stacks.

Order codes

R01	Seated Lat x 100kg
R02	Seated Lat & Pulley Row x 120kg
R03	Low Pulley x 100kg
R04	Cable Crossover 2 x 70kg
R05	Seated Leg Extension x 70kg
R06	Leg Curl v Bed x 50kg
R07	Seated Leg Press x 150kg
R08	Seated Chest Press x 100kg
R09	Seated Shoulder Press x 100kg
R10	Multipress x 150kg
R11	Seated Pec Deck x 100kg
R12	Seated Bicep curl x 70kg
R13	Dip/Chin (Kneeling) x 80kg
R14	Squat & Calf x 150kg
R15	Hip Conditioner x 70kg
R16	Leg Extension & Curl x 70kg
R17	Seated Tricep Press x 100kg
R18	Seated Ab & Adductor x 70kg
R19	Standing Calf Raise x 150kg
R20	Multipulley x 100kg
R21	Tricep Extension x 70kg
R22	Multipulley (variable) x 100kg
R23	Seated Lever Row x 100kg
R24	Seated Abdominal x 70kg

Single Station Free Standing Units Pro Range

Side loaded encased weight stacks, Locking key weight selection, Nylon coated wire cable encased in the framework for safety, Cam transmission, Range of movement adjustment and mounted charts.

Order codes

N01	Seated Lat x 100kg
N02	Seated Long Pulley Row x 100kg
N03	Seated Lever Row x 100kg
N04	Low Pulley x 70kg
N05	Seated Leg Extension x 70kg
N06	Cable Crossover 2 x 70kg
N07	Multipulley (variable) x 100kg
N08	Seated Leg Curl x 70kg
N09	Leg Curl "V" Bed x 70kg
N10	Leg Extension and Curl x 70kg
N11	Standing Calf Raise x 150kg
N12	Seated Leg Press x 150kg
N13	Recumbent Leg Press x 150kg
N14	Seated Ab and Adductor x 70kg
N15	Hip Conditioner x 70kg
N16	Seated Chest Press x 100kg
N17	Seated Shoulder Press x 100kg
N18	Multipress inc Bench x 150kg
N19	Seated Pec Dec x 70kg
N20	Seated Abdominal x 70kg
N21	Seated Back Extension x 70kg
N22	Seated Arm Curl x 70kg
N23	Assisted Dip and Chin x 80kg
N24	Seated Tricep Press x 100kg
N25	Standing Squat and Calf x 150kg
N26	Dip and Chin (kneeling) x 80kg
N32	Deltoid Side Raises x 70kg
N33	Leg Glute Press x 100kg

cardiovascular & resistance training

MULTIGYMS

Free standing units with nylon coated wire cable,
cam transmission, locking key weight selection, spring
plunger adjustments and mounted exercise charts.

Order codes

M4 - 3 STATION
Leg Extension and Curl
Bench and Shoulder Press including bench
Seated Pec Deck

M2 - 4 STATION
Leg Extension and Curl
Low Pulley
Lat with hold down seat
Bench and Shoulder Press including bench

M1 - 5 STATION
Leg Extension and Curl
Bench and Shoulder Press including bench
Low Pulley
Lat with hold down seat
Abdominal Board and Rack

M3 - 8 STATION
Leg Extension and Curl
Dipping
Lat with hold down seat
Abdominal Board
Seated Leg Press
Chinning
Low Pulley
Bench and Shoulder Press including bench

M5 - 10 STATION
Leg Extension and Curl
Dipping
Lat with hold down seat
Abdominal Board
Seated Leg Press
Chinning
Low Pulley
Bench and Shoulder Press including bench
Squat Calf
Twist-away
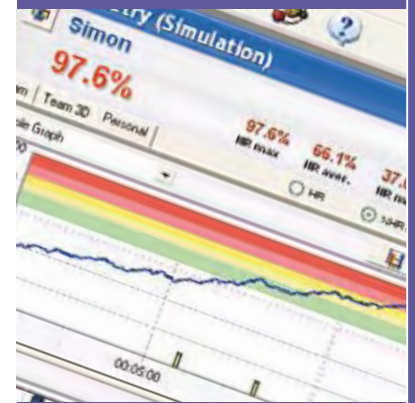
"The Hosand system has proved a valuable testing and monitoring tool for our Strength and Conditioning and Physiology work. It provides coaches, athletes and support scientists with vital real time heart rate data during training and testing. A great product for anyone recording heart rate"

Mr Paul Barratt
English Institute of
Sport North West

POLAR

(1) Polar F1 Heart Rate Monitor

New simplified use and great design for exercisers needing basic information about how their bodies react during exercise.

Order code   POL-90025211 *NOT ILLUSTRATED*

(2) Polar F3 Heart Rate Monitor

Entry level heart rate monitor with time of day.
Includes - visual and audible alarm in target zone

Order code   POL-90025114 *NOT ILLUSTRATED*

(3) Polar F4 Heart Rate Monitor

A valuable fitness tool with stopwatch and convenient button free operation.
Includes - Polar OwnCal, Zone pointer

Order codes
POL-90025940 Blue
POL-90025941 Black

(4) Polar F5 Heart Rate Monitor

Multifunctional heart rate monitor for fitness, general exercise and walking.
Includes - Polar OwnCal and SelfWalk test

Order code   POL-90026151

(5) Polar F6 Heart Rate Monitor

Excellent exercise motivator.
Includes - Polar OwnCal, Polar OwnZone, Polar OwnCode.

Order codes
POL-90023350 Black
POL-90023329 Blue
POL-90026065 Beige

(6) Polar F11 Heart Rate Monitor

Perfect for fitness enthusiasts.
Includes - Polar OwnCal, Polar OwnCode,
            Polar Fitness test, Polar Keeps U Fit.

Order codes
POL-90023368 Red
POL-90023370 Grey

(7) Polar F92ti Heart Rate Monitor

Stylish titanium design.
Includes - Polar Fitness test, Polar OwnZone, Polar OwnCode.

Order code   POL-90022199

(8) Polar FS1 Heart Rate Monitor

Extra large digits and one-button functionality.
A truly easy-to-use product for all fitness activities.
Includes - basic heart rate and time of day.

Order codes
POL-90027165 Yellow
POL-90027176 Blue

⑨ ⑩

Weight Management Monitors

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⑨ **Polar FS2 Heart Rate Monitor**

Entry-level heart rate monitor. Displays heart rate and shows all essentials for enjoyable fitness experience.
Includes - Complete heart rate, time of day, target zone, backlight and WearLink coded belt

Order code **POL-90027153** Black

⑩ **Polar FS3 Heart Rate Monitor**

All the necessities for safe and effective fitness, brief exercise summary for a better follow-up of the workout sessions.
Includes - Complete heart rate, time of day, target zone, backlight, Automatic target zone & WearLink coded belt.

Order codes
POL-90027129 Grey
POL-90027117 Red

⑪ **Polar WM21/22 Weight Management Monitors**

Weight Management monitor and diary with basic heart rate, exercise calorie burn and management of weekly exercise and daily nutritional targets.

Order codes
POL-90021955 WM21 - Mens
POL-90021928 WM22 - Womens

⑫ **Polar WM21/22 Weight Management Monitors**

Weight Management monitor with additional features
Includes - Polar OwnCal, Polar OwnZone, Polar OwnCode, and WearLink

Order codes
POL-90022009 WM41 - Mens
POL-90021982 WM42 - Womens

POLAR

(1) Polar S120 Heart Rate Monitor

Advanced features help to guide and assess effectiveness of training. The Exercise Set feature allows favorite workouts to be programmed and started at the push of a button.
Includes - Backlight, HR Based target zones, Uplink from PC

Order code   POL-902841

(2) Polar S210 Heart Rate Monitor

Can be programmed to store training parameters (TZ, timers, recovery) of up to five workouts.
Includes - OwnCode, Predicted HR max.

Order code   POL-902451 *NOT ILLUSTRATED*

(3) Polar S410 Heart Rate Monitor

Store up to five key workouts. Sonic Link technology transmits data to a PC for analysis.
Includes - Interval trainer, SonicLink, Polar Precision software

Order code   POL-902481

(4) Polar S610i Heart Rate Monitor

Valuable training tool with Infrared technology allowing direct download to a PC. Enhanced Polar Performance software enables exercise analysis.
Includes - Two-way infrared data communication

Order code   POL-902931

(5) Polar S625x Heart Rate Monitor

All heart rate and running data available on your wrist for a mobile performance lab.
Includes - Polar MobileLink and optional IR Interface
            for RS232 & USB

Order code   POL-90023849

(6) Polar RS100 Heart Rate Monitor

The RS100 will give you valuable feedback that can help improve fitness.
It combines all heart rate features with a full function stopwatch.
Includes - Interval trainer

Order codes
POL-90025900 Tan   **POL-90025884** Grey

(7) Polar RS200 Heart Rate Monitor

Manage training for key events with Polar Sports Zones and Event Countdown Timer. Facility to upload settings to running computer and download workout files to Polar Running Coach Web Service for analysis. WearLink fabric transmitter included.
Includes - SonicLink, Polar Precision software.

Order codes
POL-90025950 Black **POL-90025963** Red

(8) Polar RS200 SD Heart Rate Monitor

With the S1 foot pod the RS200SD provides accurate speed and distance data to combine pace with heart rate data.
Includes - All speed, pace & distance values

Order codes
POL-90025976 Black   **POL-90025989** Red

cardiovascular monitoring

1 Polar S150 Heart Rate Monitor

Provides all key heart rate data, speed and distance.
The Exercise Set feature allows favourite workouts to
be programmed.

Order code   POL-902871

2 Polar S520 Heart Rate Monitor

Designed for the ultimate crosstrainer or triathlete.
Added cycling features allow tracking of performance in
all disciplines.

Order code   POL-902901

3 Polar S720i Heart Rate Monitor

Combines the highest level of personal performance data,
training conditions like altitude and temperature, cycling
functions and IR technology and downloads directly to PC.

Order code   POL-902991

4 Polar S725x Heart Rate Monitor

Sleek carbon fibre look and many new features. Set target zones
as % of maximum heart rate. Download performance data to Nokia
5140 cell phone for instant feedback.

Order codes POL-90027643
                POL-90027714 with power sensor

5 Polar CS100 Heart Rate Monitor

Combines all the features of a high end cycle computer with a fully
functional heart rate monitor. Includes AutoStart, Autostop & Autolap

Order codes POL-90025609
                POL-90025623 without heart transmitter

6 Polar CS200 Heart Rate Monitor

Wireless computer that gives all cycling speed and distance
information, heart rate data and the ability to link to a PC.

Order codes POL-90025638
                POL-90025650 with cadence

POLAR

1 Polar AXN 300 Heart Rate Monitor

Keeps track of ski runs with the slope counter, check pace down the mountain or up the rock with the vertical speed feature and the barometer monitors changing weather conditions.
Includes - altimeter, barometer, thermometer & automatic logbook

Order codes   POL-90023707 Black
POL-90023728 Yellow

2 Polar AXN 500 Heart Rate Monitor

All features of AXN300 with added compass for directional information, superior comfort of the WearLink fabric transmitter and a sleek stainless steel design.
Includes - IR data download, Nokia compatible and WearLink

Order codes   POL-90023754 Black
POL-90027199 Green

3 Polar AXN 700 Heart Rate Monitor

Features heart rate rest test to determine if the body is acclimatised to extreme weather conditions. Titanium case.
Includes - altitude/barometric pressure alarms and compass with bearing tracking

Order code   POL-90023778

Heart Rate Monitor Spares and Accessories

Order codes

POL-925240	Polar IR Serial Interface set
POL-91025025	Polar IR USB Interface set
POL-920130	T31 Transmitter set
POL-920135	T31 Coded Transmitter set
POL-92024495	T61 Coded Transmitter set
POL-891121	Strap set for T31/T61 small
POL-891122	Strap set for T31/T61 medium
POL-891123	Strap set for T31/T61 large
POL-92022868	WearLink 31 Coded Transmitter set XS-S
POL-92022868	WearLink 31 Coded Transmitter set M-XXL
POL-91022687	Strap set for WearLink 31 XS-S
POL-91022688	Strap set for WearLink 31 M-XXL
POL-91024168	Battery set for WearLink 31
POL-91025921	Indoor Cycle Bikemount
POL-91026028	Universal Bikemount

CARDIOSPORT

Health & Wellbeing

(1) Cardiosport GO15 Heart Rate Monitor

Compact watch design with stylish, wrap-around, colour coordinated strap. There is a single button for switching heart rate ON and OFF.
Includes - Time of Day, Heart rate wave display, Exercise time and Target Zone.

Order code   CAR GO15

(2) Cardiosport GO25 Heart Rate Monitor

Compact watch design with wrap-around strap, GO25 has a 10 hour stopwatch with countdown timer including single and repeat modes.
Includes - Memory recall, Visual training zone, Twin row display and Scan function.

Order code   CAR GO25

(3) Cardiosport GO35 Heart Rate Monitor

Top of the range monitor with personalised calorie counter based on exercise intensity, age and weight.
Includes - Time-in-Zone display, Memory recall, Automatic heart rate recovery timer and summery of total exercise.

Order code   CAR GO35

Fitness & Sport

(4) Cardiosport GT1 Heart Rate Monitor

Features single button start for quick, simple use.
The large, easy to read display shows both percentage and current heart rate.

Order code   CAR GT1

(5) Cardiosport GT2 Heart Rate Monitor

There is a graphical display showing how hard the heart is working compared to the active heart zone. GT2 also features CardioZone which lets you set target zones during exercise. Quick start and 100 hour chronograph also included.

Order code   CAR GT2

(6) Cardiosport GT3 Heart Rate Monitor

Ideal monitor for competitive athletes and multi-sports.
The GT3 comes with a massive 99 lap/split memory including average heart rate for each lap. CardioZone and scan function are also included.

Order code   CAR GT3

(7) Cardiosport GT5 Heart Rate Monitor

The complete heart rate monitoring solution.
The GT5 comes with Cardio Fitness Manager PC software for automatic uploading of exercise sessions and analysis.

Order code   CAR GT5

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Cardiosport Quality
All Cardiosport monitors come with the following features -

• Water resistance to 30 metres
• ECG accurate
• Contour Lite transmitter belt with user changeable battery

Warranty
Cardiosport are so confident in the quality of their heart rate monitors that they now give a lifetime warranty against faulty manufacture of the Contour Lite transmitter belt.

cardiovascular monitoring

hosand.
OPTIMIZE YOUR LIFE

① Hosand TM200 Telemetry Heart Rate Monitoring System

The HOSAND TM200 system is an indispensable work tool for coaches, fitness trainers and anyone needing to monitor the heart rate of athletes during training. The system can monitor up to 32 subjects simultaneously with great precision and no delay.

Subjects are monitored in real time, allowing complete freedom of movement unimpeded by links to machines or other devices. The system allows prompt analysis of heart rate through various stages of physical activity.

The transmitter intercepts the heart rate picked up by the chest strap and sends the data in real time to the receiver, they are then conveyed via the synchronisation box to the computer, where they are processed, organised and efficiently displayed by the SW200 software.

The TM200 system is easy to use and provides on-the-spot, easily interpreted analyses. A unique tool and invaluable aid in training programmes, physiotherapy and rehabilitation.

The HOSAND TM200 system comprises - standard heart rate chest strap, TX200 transmitter and sweat shirt with pocket for transmitter for each user, together with RX200 receiver, SX200 synchronisation box, SW200 software and system case.

Order codes

TM200-6	6 user
TM200-12	12 user
TM200-18	18 user
TM200-24	24 user
TM200-30	30 user
T5D521	Heart rate monitor, transmitter and belt
TMRX200	Receiver with antenna
TMTX200	Transmitter unit
TMSX200	Synchronisation box and cable
TM/CANARG	Sweat shirt (silver)
TM/CANBIA	Sweat shirt (white)

② Hosand TM100 Telemetry Heart Rate Monitoring System

The HOSAND TM100 is a system that enables fitness professionals to set specific goals for each of their clients, and to devise the most appropriate physical activity programme to reach these goals.

Applying heart rate telemetry, Hosand has revolutionised the relationship between the clients and fitness professionals.

HOSAND TM100 is based on the same technology that constitutes the core of the HOSAND TM200 heart rate telemetry system for professional sports.

Order codes

TM100-3	3 user
TM100-6	6 user
TM100-12	12 user
TM100-18	18 user
TM100-24	24 user
T5D521	Heart rate monitor, transmitter and belt
TMRX200	Receiver with antenna
TMTX200	Transmitter unit
TMSX200	Synchronisation box and cable
TM/CANARG	Sweat shirt (silver)
TM/CANBIA	Sweat shirt (white)

SECA

① Seca CT3000 ECG

Intelligent 3 channel ECG with interpretive programme.
Auto-start button automatically produces ECG traces complete with rhythm strip, measurements and interpretation.
Mains and battery operation. Battery recharges automatically providing 4 hours of continuous operation when fully charged.
Filters for baseline, electrical and muscle tremor interference provide clear traces.
Copy button for extra ECG printouts.
Manual button provides real time print outs.
Paper tray accommodates z-fold or roll paper.
12 simultaneously acquired ECG traces printed on 90mm paper eliminates trace overlap.
Supplied complete with mains cable, patient cable, pack of z-fold paper, 500 disposable electrodes and alligator clips.

Order codes

CT3000b   Basic ECG machine
CT3000m   Measurement ECG machine
CT3000i   Interpretive ECG machine

② Seca CT8000i Interpretive

Stand alone use and PC connectivity for paperless ECG options.
3 channel interpretive ECG, LCD screen and alpha-numeric keyboard.
Internal memory for up to 45 stored ECG records.
Paperless ECG option-download and electronically store ECG traces inside individual patients' records via RS232 port.
Adult and paediatric interpretive software.
Easy-to-use one touch button operation.
Automatic Rhythm Strip and advanced filters (SSF and SBS) for clear traces.
Mains and rechargeable battery operation.
Supplied complete with mains cable, patient cable, pack of z-fold paper, 500 disposable electrodes and alligator clips.

Order code   CT8000i

③ Seca CT8000p Interpretive A4 Presentation

12 channel interpretive ECG, LCD screen and alpha-numeric keyboard.
Easy selection of traces from 12 x 1, 6 x 2 or the popular 4 x 3 plus Rhythm Strip one page report.
High quality digital filters for clear traces.
Internal memory for up to 45 ECG records.
All parameters including filters are easily programmed through the on-screen menu for a one touch ECG.
Can upgrade to spirometry, stress test & thrombosis indication.
Adult and Paediatric interpretive software.
On-screen lead test and lead-off indication.
Mains and rechargeable battery operation.
Supplied complete with mains cable, patient cable, pack of z-fold paper, 500 disposable electrodes and alligator clips.

Order code   CT8000p

④ Seca CT500 ECG Trolley

Dedicated for use with the Seca CT3000 and CT8000 ranges of ECG machines.
Features a spring loaded arm for control of patient cable and storage basket for electrodes and paper.

Order code   CT500

cardiovascular monitoring

(1)

(1) Seca CT110 CardioConcept PC Based Resting ECG

Using a conventional 10 lead ECG cable, the seca CT110 acquires the ECG from the patient directly into the treatment room computer.
The interface is easy to use and the ECG recording can be viewed, printed and archived into the patients database.
High quality recordings of all 12 leads for viewing, printing or comparison with previous tracings.
Robust defibrillator proof connection to PC, the unit is powered from the USB port, eliminating the mains cable.
Paperless ECG records however if hard copy is required, the ECG can be printed with grid onto plain copier paper.
User friendly, the CT110 requires only two clicks of the mouse to take an ECG recording.
Data can be attached to all leading patient record systems.
Supplied complete with USB connecting cable, full length traditional patient cable and CardioConcept software on USB flash drive.

Order code   CT110

CARDIOLYZER

(1) CardioLyzer Ultra
PC Based Exercise ECG

Easy to use, PC based 12 channel ECG with interpretation and stress test capability. Can be used as a stand alone rest or stress test ECG, allowing assessment of cardiac and pulmonary function during exercise with a single test. ECG software completely integrated with latest Cortex Metasoft software, allowing recording and viewing of ECG signals during a full CPX test.

Order code   COR-420-01-980

CORTEX

Cortex Central Monitoring System

The ECG CMS is a sophisticated PC based monitoring system designed to safely record the ECG of up to 16 patients during ergometry or mobile exercise simultaneously. The ECG of any patient can be seen on screen, allowing efficient monitoring of several patients at the same time.

Provides automatic control of up to 16 cycles or treadmills.
Continuous recording of each station.
Workload or heart rate controlled programmes.
Optional heart rate monitoring via Polar HR Monitor.
Easy to design individual workload protocols & store for future use.

A safe, efficient tool offering enhanced diagnostic capabilities for any modern rehabilitation environment.

NOT ILLUSTRATED

Order codes
COR-320-00-001   ECG amplifier wired
COR-320-00-002   ECG amplifier telemetry
COR-320-01-008   8 station system
COR-320-01-012   12 station system

HEARTSTART

(2) Heartstart FR2 Defibrillator

Provides emergency first responders with an effective means to treat patients in sudden cardiac arrest.
Lightweight, durable and easy-to-use automated defibrillator that allows the user to deliver lifesaving therapy on scene immediately.
Patented SMART Biphasic waveform is the most patient friendly technology available today.

Order codes
M3841A   Heartstart defribrillator
**M3840A**   Heartstart defribrillator with ECG display

LIFEPULSE

(3) LifePulse Monitors

Available in two models.
LP10 - single channel monitor featuring large screen and standard 3-channel monitoring.
LP15 - as LP10 with the addition of high quality linear thermal array printer for clear ECG recording plus print out time and date.

Order codes
LP10   Single channel ECG monitor
LP15   Single channel ECG monitor and printer

(1)

(2)

(3)

cardiovascular monitoring
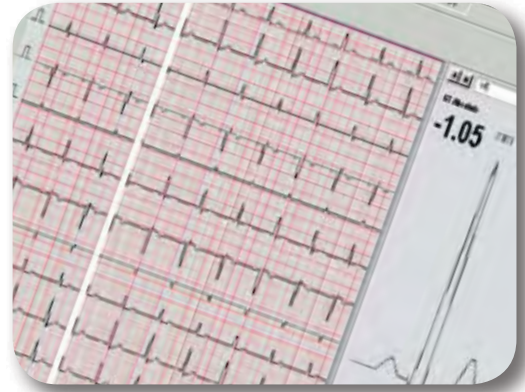
NONIN

① NONIN 9500 Onyx
Digital Finger Pulse Oximeter

Easy to Use   Automatic switch On/Off when finger
                is inserted
Reliable   Trusted by Clinicians Worldwide
Durable   Even in the toughest environments
Accurate   No routine calibration required
Cost Effective   Self contained unit
                no additional sensors needed
Compact   Small enough to carry at all times
Efficient   18 hours continuous use or approx.
                1600 spot checks

Order code   **NON-9500**

② NONIN 8500 Series
Hand Held Digital Oximeters

Easy to use   3 Button operation and bright LED display
                Indication of pulse quality
Reliable   Proven NONIN digital pulse
                oximetry technology
Durable   Extremely tough
Weight   280g with 6 x AA batteries
Compatible   Works with all NONIN sensors

Order codes

NON-8500   Hand Held Pulse Oximeter
NON-8500E   Additional ear sensor
NON-8000AA-1   Additional finger sensor
NON-8500L   Finger sensor with 3 metre cable

③ NONIN 2500 PalmSat
Digital Pulse Oximeter

Easy to use   2 Button operation and bright LED
                display Indication of pulse quality
Compact   Rubber unit with built in bumper
Flexible   AA & rechargeable batteries, or AC power
Powerful   72 hours memory for data storage
Weight   210g with alkaline batteries
Compatible   Works with all NONIN purelight sensors

Order codes

NON-2500   PalmSAT Digital Pulse Oximeter
NON-2500C   Powered docking stand &
                charger with batteries
NON-2500CC   Cushioned carry case
NON-8000Q   Additional ear sensor

④ NONIN 3100 Wristox Digital Pulse Oximeter

Easy to use   Simply plug in the system and go
Compact   Fits comfortably onto patients wrist
Weight   25g (without batteries and strap)

Order code   **NON-3100**

⑤ NONIN 2120 Avant
Combined Sp02 and NIBP Monitor

Dual Function   Digital SpO2 and digital NIBP monitoring,
                adjustable user defined parameters, alarms
                and inflation pressure, Nurse Call and patient
                security functions
Compact   Lightweight and durable
Reliable   Icons/colour coded display indicates signal status
Flexible   Automated and On-Demand NIBP measurement

NEW GOLD STANDARD IN SPO2 & DIGITAL NIBP MONITORING

Order code   **NON-2120**

ACCOSON

(1)   (2)   (3)

Made in UK and guaranteed accurate to BS EN 1060 –1

cardiovascular monitoring

1   Accoson Six Inch Wall Aneroid Sphygmomanometers

Large diameter white dial inclined for easy viewing
Wall model has swivel mounting bracket. Desk model with convenient carry handle. Stand model with heavy stable base on five castors. Cuff stored behind dial. Supplied with adult Velcro cuff, latex free bulb & coiled tubing. Range 0-300mmHg

Order codes

COS-0340   Wall mount with adult bandage coiled tube cuff
COS-0342   Wall mount with adult Velcro coiled tube cuff
COS-0347   Wall mount with Large adult bandage coiled tube cuff
COS-0349   Wall mount with large adult Velcro coiled tube cuff
COS-0372   Wall mount - gauge & bracket only

COS-0330   Desk with adult bandage coiled tube cuff
COS-0332   Desk with adult Velcro coiled tube cuff
COS-0337   Desk with large adult bandage coiled tube cuff
COS-0339   Desk with large adult Velcro coiled tube cuff
COS-0375   Desk - gauge & bracket only

COS-0360   Stand with adult bandage straight tube cuff
COS-0362   Stand with adult Velcro straight tube cuff
COS-0367   Stand with large adult bandage straight tube cuff
COS-0369   Stand with large adult Velcro straight tube cuff
COS-0376   Stand - gauge only

Accessories

COS-1502   Valve and bulb for sphygmomanometer
COS-1505   Pair of tubing connectors - male and female

2   Accoson Limpet Hand Held Aneroid Sphygmomanometers

One-handed use, suitable for both right and left hands. Lightweight plastic moulded case. Supplied in pouch case with brass zip and adult Velcro cuff, latex free bulb & coiled tubing. Range 0-300mmHg.

Order codes

COS-0290   With adult bandage straight tube cuff
COS-0300   With adult bandage coiled tube cuff
COS-0292   With adult Velcro straight tube cuff
COS-0302   With adult Velcro coiled tube cuff
COS-0297   With large adult bandage straight tube cuff
COS-0307   With large adult bandage coiled tube cuff
COS-0299   With large adult Velcro straight tube cuff
COS-0309   With large adult Velcro coiled tube cuff
COS-0374   Gauge only

3   Accoson Dekamet Mercury Sphygmomanometers

Lightweight die cast case. Shatterproof plastic manometer tube Mercury reservoir isolation valve. Steel hinge pivots. Supplied with adult size Velcro cuff & latex free bulb. Range 0-300mmHg

Order codes

COS-0121   With adult bandage cuff
COS-0125   With adult Velcro cuff
COS-0127   With wide range bandage cuff
COS-0129   With wide range Velcro cuff

4   Accoson greenlight 300 Sphygmomanometers

Developed to provide a reliable and accurate alternative to the mercury sphygmomanometer.

Manual device with resolution of 2mmHg
Easier to read than mercury
Calibrated to 0.4mmHg
Performs an auto calibration to zero each time it is switched on
Display of cuff deflation rate
Any cuff size can be used
Frequent calibration checks are not required

Order codes

COS-0700   With adult bandage cuff
COS-0702   With adult Velcro cuff
COS-0707   With wide range bandage cuff
COS-0709   With wide range Velcro cuff
COS-1772   Wall mounting conversion kit
COS-1774   Stand model conversion kit
COS-1775   Carrying case

AW

(1) AW Monoscope AW Duoscope

Single or double sided general use, lightweight alloy chest piece. Adjustable head frame with external spring white plastic ear tips.

Order codes
AW-90.05.000   Monoscope stethoscope
AW-90.01.000   Duoscope stethoscope

LITTMAN

(2) Littmann Classic II S.E. Stethoscope

The standard of the health care professional worldwide. Incorporates Littmann dual frequency diaphragm, 28 inch tubing with integral adjustable head frame. Also available in teaching, paediatric and infant versions.
Supplied in presentation box. 3 year warranty.

Order codes
LIT-2201B   Standard - Black   **LIT-2113**   Paediatric - Black
LIT-2114   Infant - Black   **LIT-2138**   Teaching - Black

(3) Littmann Cardiology STC Stethoscope

Cardiology grade acoustics in single sided chestpiece. Soft-touch insert greatly improves ergonomics and is said to reduce noise and provide better quality acoustics. Also available in blue or burgundy.

Order codes
LIT-4471   Black   **LIT-4472**   Burgundy
LIT-4473   Navy Blue

BoSo

(4) BoSo Medilife Wrist

State of the art technology. Small wrist mounted BP unit. 30 memory blocks provide 14 day profile. Large three value display. Supplied with storage case, batteries and blood pressure record card.

Order code   BOS-60.13.000 BoSo Medilife

(5) BoSo Medicus Smart Complete

Simple, economical digital blood pressure monitor. Semi automatic measurement process. Alternating display of blood pressure and pulse. Irregular heart beat indicator. Auto off facility Over 2000 measurements from one battery. Optional large cuff available. Supplied with carrying case, adult cuff, batteries and record card.

Order codes
BOS-60.38.000 BoSo Medicus Smart complete
BOS-143.4.750 BoSo Medicus adult cuff
BOS-143.4.757 BoSo Medicus extra large adult cuff

(6) BoSo Medicus Uno

Simple, reliable and accurate digital BP Unit. Simple one button operation. Memomatic pumping for gentle inflation. Memory of last measurement. Irregular heart beat indication. Large 3 value display. Supplied with carrying case, adult cuff, batteries and record card.

Order codes
BOS-60.36.000 BoSo Medicus Uno complete
BOS-143.4.750 BoSo Medicus adult cuff
BOS-143.4.757 BoSo Medicus extra large adult cuff

(7) BoSo Medicus Standard

Fully automatic. Single push button operation. Four set inflation levels avoids over inflation. Large 3 value display. Optional memory and PC compatible units available. Supplied with carrying case, adult cuff, batteries and record card.

Order codes
BOS-60.10.000 BoSo Medicus Standard complete
BOS-60.19.000 BoSo Medicus Memory complete
BOS-60.17.000 BoSo Medicus PC Plus complete
BOS-143.4.750 BoSo Medicus adult cuff
BOS-143.4.757 BoSo Medicus extra large adult cuff

body measurement & composition

"Having used
various other pieces
of equipment we
have found the Bod
Pod to be the most
reliable and user
friendly system on
the market."

Dr Tanya Naleeb
Head of Physial
Edation and
Sports Stuies at
Neman College

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SECA

(1) Seca Dial Floor Scale

Mechanical personal scale with large dial.

Capacity 150kg   Graduations 500g (Medical version 1kg)

Order codes

SEC-761   Dial Floor Scale
SEC-7617   Dial Floor Scale - (Medical version class III)
SEC-423   Carrying case

(2) Seca Dial Column Scale

Mechanical column scale with BMI display.

Capacity 160kg   Graduations 500g

Order codes
SEC-755   Dial Column Scale with BMI display
SEC-756   Dial Column Scale with BMI display
              (Medical version class III)
SEC-220   Height Measuring rod

(3) Seca Beam Column Scale

Mechanical column scale with waist level beam.

Capacity 200kg   Graduations 50g (Medical version 100g)

Order codes

SEC-710   Beam Column Scale
SEC-709   Beam Column Scale (Medical version class III)
SEC-220   Height Measuring rod

(4) Seca Beam Column Scale

Mechanical column scale with eye level beam.

Capacity 220kg   Graduations 50g (Medical version 100g)

Order codes

SEC-700   Beam Column Scale
SEC-711   Beam Column Scale (Medical version class III)
SEC-220   Height Measuring rod

(5) Seca Digital Floor Scale

Digital flat scale.

Capacity 150kg   Graduations 50g

Order codes

SEC-873   Digital Floor Scale
SEC-429   Carrying case

(6) Seca Digital Floor Scale

Digital flat scale with automatic power down function.

Capacity 200kg   Graduations 100g <150kg> 200g

Order codes

SEC-880   Digital Floor Scale
SEC-429   Carrying case

(7) Seca Digital Floor Scale

Electronic personal scale with automatic power down function.

Capacity 200kg   Graduations 100g (Medical 160kg / 200g)

Order codes

SEC-770   Digital Floor Scale
SEC-888   Digital Floor Scale (Medical version class III)
SEC-426   Carrying case

SECA

8 Seca Digital Floor Scale

Electronic personal scale with cable link remote display, BMI and limit value function.

Capacity 200kg   Graduations 100g <150kg> 200g
                   (Medical version 160kg / 200g)

Order codes
SEC-882   Digital Floor Scale
SEC-884   Digital Floor Scale (Medical version class III)
SEC-400s Carrying case

9 Seca Digital Platform Floor Scale

Scale for heavy subjects with large step-on platform and cable link remote display.

Capacity 360kg   Graduations 100g
                   (Medical version 300kg / 100g <200kg> 200g)

Order codes
SEC-634 Digital Floor Scale
SEC-635 Digital Floor Scale (Medical version class III)

10 Seca RS232 Adaptor Kit

RS232 adaptor kit for transmitting data to a the serial interface of a PC or printer. Suitable for models: 701, 797, 780, 882, 767, 634, 635

Order code SEC-460

11 Seca Digital Column Scale

Electronic personal scale with energy saving technology.

Capacity 200kg   Graduations 100g

Order code   SEC-780
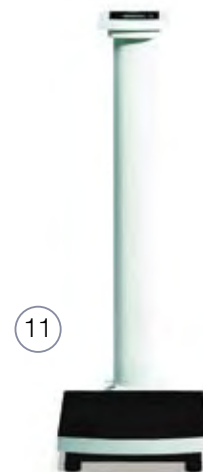
12 Seca Digital Column Scale with BMI

Electronic column scale with BMI function.

Capacity 160kg   Graduations 200g

Order codes
SEC-797 Digital Column Scale with BMI (Medical version class III)
SEC-220 Height measuring rod

13 Seca Digital Column Scale with BMI

Electronic column scale with LC display, BMI function & 50g graduation.

Capacity 200kg   Graduations 50g <150kg> 100g

Order codes
SEC-767 Scale with BMI
SEC-701 Scale with BMI (Medical version class III)
SEC-220 Height Measuring rod

**14 Seca High Capacity Digital
     Column Scale with BMI**

High capacity and stable electronic column scale with BMI function.

Capacity 250kg   Graduations 100g

Order codes
SEC-703 Scale with BMI
SEC-704 Scale with BMI (Medical version class III)
SEC-220 Height Measuring rod

**15 Seca Digital Weighing and Measuring
     Station with Automatic BMI**

Determine weight, height and BMI in one step, with two displays.

Capacity 250kg   Graduations 50g (Medical version 100g)

Order codes
SEC-763 Digital Column Scale with height and BMI
SEC-764 Digital Column Scale with height and BMI
             (Medical version class III)

body measurement & composition

SECA

① Seca Measuring Tape

Automatic roll-up measuring tape.
Range   15 – 200cm   Graduations 1mm

Order code   SEC-200

② Seca Wall Mounting Height Measure

Roll-up measuring tape with wall attachment.
Range   0 – 220cm   Graduations 1mm

Order code   SEC-206

③ Seca Wall Mounting Height Measure

Wall mounted telescopic measuring rod with extra wide measuring slide.
Range   6 – 230cm   Graduations 1mm

Order code   SEC-222

④ Seca Electronic Wall Mounting Height Measure

Wall mounted measuring rod with wireless data transmission to separate display.
Range   62 – 210cm   Graduations 1mm

Order code   SEC-242

⑤ Seca Free Standing Height Measure

Stand-alone, easy to set up and transport measuring rod.
Range   20 – 207cm   Graduations 1mm

Order code   SEC-214   *NOT ILLUSTRATED*

⑥ Seca Free Standing Height Measure

Mobile measuring unit on castors for convenient transport.
Range   6 – 230cm   Graduations 1mm

Order code   SEC-225

⑦ Seca Scale Mounting Height Measure

Telescopic Measuring rod for attachment to column scales.
Range   85 – 200cm   Graduations 1mm

Order code   SEC-220

HARPENDEN

1 **Harpenden Skinfold Caliper**

The Harpenden Skinfold Caliper is one of the most up to date and versatile calipers on the market. Used correctly it will give good service and reliable results for many years.

Range   0 to 50mm   Increments   0.2mm

Order code   HSK-BI

2 **Harpenden Condyle Caliper**

Nickel plated caliper for making a variety of body measurements. Supplied in vinyl carrying case.

Range   0 to 140mm   Increments   1.0mm

Order code   HCC-98.604

3 **Harpenden Anthropometer**

Constructed of a light anodised alloy, the Harpenden Anthropometer is a counter recording instrument that can be effortlessly operated from the tips of its branches. The operator can, by means of their free fingertips, feel their way to the desired measuring points in order to obtain a degree of accuracy not possible with conventional anthropometers.

Range   50 – 570mm   Accuracy 1.0mm

Comes complete with sturdy carry case.

Order code   HAR-98.601

4 **Harpenden Stadiometer**

Harpenden Stadiometer with standard/VR high speed counter is a counter recording instrument with an effortless counter balanced movement. It is available with either a standard counter or a high speed VR (Veeder-Root) counter.

Range   600 – 2100mm   Accuracy 1.0mm

Order codes
HAR-98.602   Stadiometer with standard counter
HAR-98.602VR Stadiometer with VR high speed counter

5 **Harpenden Portable Stadiometer**

This instrument has been designed to give all the advantages of the Harpenden Stadiometer in a portable form. It has the same sensitive counter balanced movement and will give accurate and direct readings.

Range   810 – 2060mm
Accuracy   1.0mm

Order codes
HAR-98.603 Stadiometer Portable
HAR-98-608 Stadiometer Pocket

6 **Anatomical Tape**

• Dual graduated in millimetres and inches
• Self retracting oil cloth tape measure
• Metal bodied
• 1.5m

NOT ILLUSTRATED

Order code   HOL-17.427.15

body measurement & composition

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MALTRON

① **Maltron Bio-scan Analysers**

Practical, non-invasive, non-intrusive, highly accurate diagnostic monitoring system for assessing nutritional and clinical status. Measure the flow of electrical signals as they pass through fat, lean tissue and water, each resisting the flow of electrical signals at different rates giving a highly reliable and accurate measure of the amounts of each of these components.

Order codes

BF900 Features Body Fat %, Target Fat %(min/max), Basel Metabolic Rate (BMR) and Body Impedance.

BF906 Extra features include, Body Mass Index (BMI), Body Fat Weight, Target Weight, Lean Weight, Lean %, Water % and Target Water (min/max).

BF907 Extra features include, Energy Expenditure (daily/weekly)

TANITA

② **Tanita 310 Body Fat Analyser**

The extra large weight capacity and low-profile scale platform make this model ideal for measuring the elderly or obese.
A separate digital display with integrated printer provides complete body composition profile in seconds including:
Weight, Body Fat Percentage, Body Fat Mass, Fat Free Mass, Total Body Water and Basal Metabolic Rate.

Weight Capacity   270kg (36st)
Weight Graduation 0.2kg (0.4lb)
Platform Size   400 x 381 x 40mm 4-Point Load Cell

Order code   TBF-310GS

③ **Tanita 350 Body Fat Analyser**

Platform-based LCD which reports weight, body fat percentage and Body Mass Index (BMI) in seconds.
For in-depth reporting capability the BF-350 can be connected to a PC running Tanita's HMS Plus Software package to give further detailed analysis, including Basal Metabolic Rate (BMR), Total Body Water and Fat Free Mass.
With a weight capacity of 200kg/31st, the single-point load cell weighing system in this scale guarantees precision and durability.

Order code TBF-350

④ **Tanita 410 Body Fat Analyser**

All in one model includes a column mounted digital display for ease of use. The integrated printer provides complete body composition profile in seconds.

Capacity   200kg
Graduation   100g/0.2lb
Platform Size 305 x 324 x 76mm

Order code TBF-410GS

⑤ **Tanita BC418MA Segmental Body Composition Analyser**

Prints out a complete body composition profile in seconds, including Weight, Body Fat Percentage, Body Fat Mass, Fat Free Mass, Estimated Muscle Mass and Basal Metabolic Rate. Through the use of 8 polar electrodes, it can show separate body mass readings for the right arm, left arm, trunk, right leg and left leg. The all-in-one compact column mount design, with integrated printer, makes the BC-418MA perfect for use in small, dedicated spaces.

Order code   TBF-BC418MA

BODYSTAT

**(6) BodyStat BS1500
Body Fat Analyser**

Simple and repeatable bio-impedance unit for the estimation of body fat percentage. It utilises a single frequency measurement approach, using disposable electrodes fitted to the subjects hand and foot. The unit has a two line LCD screen allowing the display of the subjects results. Stored data can be downloaded to a PC for storage and evaluation by use of the optional software programmes.

Order code   BS1500

**(7) BodyStat BS1500MDD
Body Fat Analyser**

This unit offers a quick, easy and non-invasive method to measure body composition including body fat, lean mass, dry lean mass and total body water.
Metabolic rates and waist/hip ratio are also calculated.
It contains separate equations for children over 5 years and adults. Includes Body Manager software package

Order code   BS1500MDD
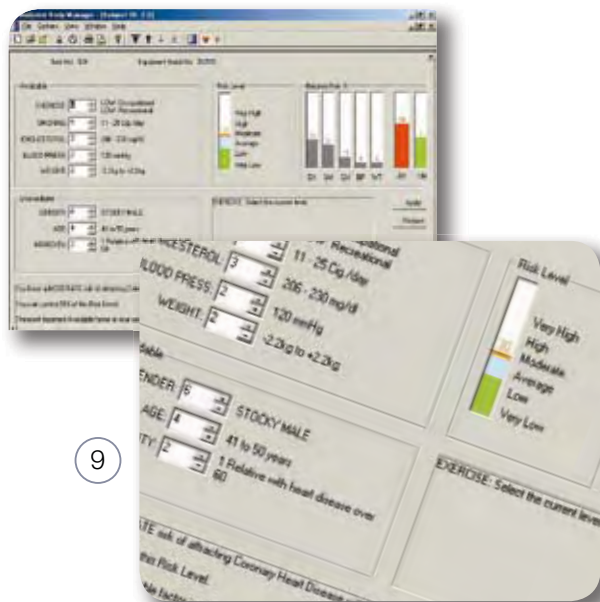
**(8) BodyStat QS4000
Body Composition Analyser**

The QuadScan 4000 device offers a quick, easy, economical and non-invasive alternative to other methods of fluid assessment and body composition analysis, e.g. radioisotope dilution, underwater weighing.
By measuring the impedance at 5kHz and 200kHz and by applying predictive equations, it is possible to estimate both ECW and TBW (Total Body Water) respectively and by deduction, ICW. ECW can be related to Extra-Cellular Mass and ICW to Body Cell Mass.

Order code   QS4000 *NOT ILLUSTRATED*

(9) Body Manager Programme

The Body Manager programme is ideal for tracking changes in body composition over a period of time.
Features of the programme include - Body composition, Trend reports, History graphs, Weight and activity monitors and Cardiac risk analysis.

Order code   BM1500

HydroStatic Weighing System

This package is designed for use in exercise physiology laboratories and other research centres, for the accurate determination of body density using the underwater measurement method.
This low cost system comprises of a large cylindrical, thick wall HD polyethylene tank, with a gantry to support the subjects harness assembly. The measurement is made using a high quality load cell and digital display unit.
Manual entry PC software programme is supplied to compute the results.

Order code   HWS1 *NOT ILLUSTRATED*

System comes complete with heater and filtration unit.

body measurement & composition

HydroStatic Weighing System

For further information regarding the installation requirements of the HydroStatic water tank please contact our service team.

1 BodPod Research Body Composition System

Complete turnkey system measuring and tracking body fat and lean mass using patented air displacement technology. Technology is based on the same whole-body measurement principle as hydrostatic weighing.
High level of accuracy, ease-of-use and fast test time, has made the BodPod the method of choice for measuring body composition. Its reliability has been proven in the field by leading universities, sports teams, fitness clubs, military organisations and weight management centres. In fact, no other body composition measurement system can claim the combination of accuracy, safety, and speed that can only be found in the BodPod.

- BodPod chamber with dual ability to measure lung volume or use predicted values
- Dedicated computer system with data management capability
- Digital scale with computer interface
- Physical calibration standards

Order code   BodPod Research

② **BodPod ST Body Composition System**

Based on the same principle as underwater weighing, this is the accepted gold standard for measuring body composition.

The only device of its type in the world, the BodPod uses a patented air displacement technology to provide highly accurate results more quickly and easily than underwater weighing.

Integrate into diet and exercise programs to provide valuable feedback and motivation.

• Proven accuracy using whole body density

• Fast (less than five minutes)

• Easy and comfortable

• Self-test capability

The spacious interior accommodates a wide variety of shapes and sizes.

Routinely used to measure the body composition of university and professional athletes.

Complete analysis, including printed results, takes less than five minutes.

Simple prompts guide the user through the test process - includes self-test option with audio prompts for testing.

Order code BodPod ST

BodPod System Options and Accessories

Option for exporting data through the BodPod software package.

Tubes and filters are also available.

NOT ILLUSTRATED

③ **PeaPod® Infant Body Composition System**

Use the PEA POD in research and clinical settings to help -

• Assess infant growth

• Optimize nutritional and pharmacological interventions

• Investigate and optimize release criteria in NICU settings

• Establish normative body composition data

• Mobile

• Minimal operator training required

• Safe and non-invasive

• Accommodates most infant behaviours

• Comfortable testing environment

• Patented air displacement technology to assess percent body fat and fat-free mass

• Accurate and precise based on research findings

• Short test time (approximately 7 minutes)

• For infants weighing between 1kg (2.2lbs) and 8kg (17.6lbs)

• Menu-driven software with data management capability

Order code Pea Pod Infant

body measurement & composition

InBody

① InBody 220 Body Composition Analyser

Touch-screen for data input. Customised handle-bars to guide proper posture. Footpad measures weight & body composition.

Multi frequency analysis	20kHz to 100kHz
Measurement range	10 to 250kg
Outputs	Weight, body fat mass, percentage body fat, skeletal muscle mass, BMR, BMI, waist hip ratio and exercise planner

Order code   InBody 220

② InBody 320 Body Composition Analyser

Touch-screen for data input. Customised handle-bars to guide proper posture. Footpad measures weight & body composition.

Multi frequency analysis	5, 50 and 250kHz
Measurement range	10 to 250kg
Outputs	Weight, body fat, percentage body fat, intracellular water, extracellular water and total body water, lean body mass, BMR & BMI segmental impedance index

Order code InBody 320

③ InBody 520 Body Composition Analyser

Reproducible electrode system (8 point tactile electrodes)

Multi frequency analysis	5, 50 and 500kHz
Measurement range	10 to 250kg
Outputs	Weight, body fat, percentage body fat, skeletal muscle mass, BMR, BMI, waist hip ratio, muscle measurement of each limb, trunk, body cell mass, bone mineral, fitness score and body shape graph

Order code   InBody 520

④ InBody 720 Body Composition Analyser

Medical and Research modes results sheet automatically printed.

Multi frequency analysis	1, 5, 50, 250, 500 and 1000kHz
Measurement range	10 to 250kg
Outputs	Body composition, muscle fat diagnosis, obesity diagnosis, BMI, BMR, percentage body fat, segmental lean mass, segmental oedema, visceral fat analysis, nutritional evaluation, bone mineral content, waist hip ratio & weight control

Order code   InBody 720

⑤ InBody BS20 Body Composition Analyser

Fully mobile unit with battery backup. Research mode (resistance, reactance and phase angle). Accurate assessment of ICW and ECW.

Multi frequency analysis	1, 5, 50, 250, 500 and 1000kHz
Measurement range	10 to 250kg
Outputs	Body composition, muscle fat diagnosis, obesity diagnosis, BMI, BMR, percentage body fat, segmental lean mass, segmental oedema, visceral fat analysis, nutritional evaluation, bone mineral content, waist hip ratio & weight control

Order code   InBody BS20

bio-mechanical measurement

"We are using the
Mega system for
investigating quadricep
and hamstring muscle
activity in patients with
knee problems.
A vital tool for research
in physiotherapy
and orthopaedics."

*John Dixon
Research Fellow and
Laboratory Manager
University of Teesside*

(1) **Cybex Humac Norm**

The Humac Norm is your solution for measuring human performance.

In one machine it offers 22 isolated-joint movement patterns, four resistance models (isokinetic, isotonic, isometric and passive) and numerous reports to meet the measurement and exercise needs of today's researchers.

The Humac Norm includes attachments to perform the isolated patterns covering the shoulder, elbow, wrist, hip, knee, ankle and back.

The Humac software allows users to easily carry out testing of patients both quickly and hassle free. It offers a variety of easy-to-read reports with options including -

- Test
- Graphic Summary
- Narrative
- Progress
- Multi-Session

- Curve Overlay
- Exercise
- Repeatability
- Group Summary
- Normative Data

The Humac's Preference settings give you the flexibility to customise the software to your specific needs. Preference options include feedback, data analysis and reporting.

The Humac software is constantly under development and is always backward compatible with all Cybex machines. This makes sure that your software and your investment is never obsolete.

Order code　　**CYBEX** Cybex Norm Isokinetic system

The Humac Norm is fully compatible with all Mega EMG systems.

For further information please contact our sales team.

Mega EMG Systems

(1) Muscle Trainer

Muscle Trainer is a small, two channel EMG biofeedback system designed for both research and rehabilitation. It is a small, portable system, which also has the latest MegaWin software. Easy to use and with a rechargeable battery the Muscle Trainer allows measurements in memory or real time.

Comes complete with data unit, pre-amplifier cables, USB computer interface and the latest MegaWin Software.

Order codes
MT-METR Muscle Trainer 2 channel averaged EMG system
MT-MT2C Preamp Cable 1 channel muscle trainer

(2) ME6000 Bio Monitor

Designed to meet the most demanding needs in biomechanics research, rehabilitation, occupational health, sports medicine and neurology. The ME6000 is a small and lightweight unit (only 344 grams) including EMG cables. Can also be used with other sensors such as goniometers, accelerometers, heart rate and ECG, inclinometers and foot switches.
Compatible with force plates, isokinetic & motion analysis systems.
Store measurements easily with the 256Mb memory card or monitor in real time using telemetry or USB connections.
System configurations include 4, 8, and 16 channel monitoring via USB or WLAN telemetry connection.
Options include - Neuro monitor, Isolation unit (together with multiple sensors), memory card, video EMG and a new waterproof system. Fully compatible with the latest MegaWin software.

Order codes

MT-M6T4	ME6000 4 channel EMG system
MT-M6T4WLAN	ME6000 4 channel telemetry EMG system
MT-M6T8	ME6000 8 channel EMG system
MT-M6T8WLAN	ME6000 8 channel telemetry EMG system
MT-M6T16WLAN	ME6000 16 channel telemetry EMG system

Options

MEG-990000	Neuro monitor for ME6000
MW-DVO	Digital Video EMG
ME-4ISO	Isolation unit, 4 isolated analogue inputs
MT-WPROOF4	Waterproof case for ME6000 4 channel
MT-WPROOF8	Waterproof case for ME6000 8 channel
MT-WPROOF16	Waterproof case for ME6000 16 channel

Spares

MT-VP00257	Pre-amp cable 2 channel (for ME6000/4/8)
MT-VP00275	Pre-amp cable 4 channel (for ME6000/16)

Please contact sales team for further information

MegaWin Video EMG option

Compatible with most Mega EMG systems and allows real time measurement, laboratory and field, using standard digital video equipment. Images and data automatically synchronized via simple trigger switch. Analyse collected EMG data and video images with playback functions, snapshots and reports.

**Order code   MEG-MW-VO**

MegaWin ME6000 Neuromonitor

The new neuromonitor system allows EMG measurement applications in measurements of evoked potentials (EP), transcranial magnetic stimulation responses (TMS) and reflex such as H-reflex and M-reflex. By using the latest software you can also combine various triggering possibilities, such as a patella hammer or nerve stimulators.

Order code   MEG-NEURO

(1)

(2)

bio-mechanical measurement

MEGA
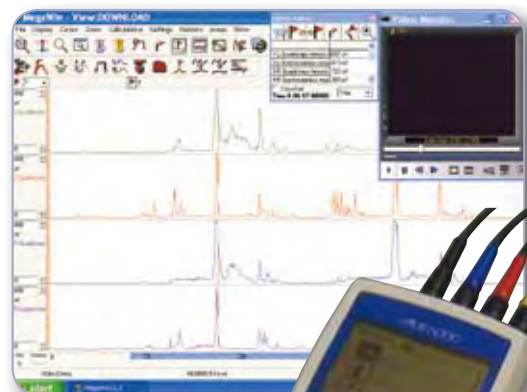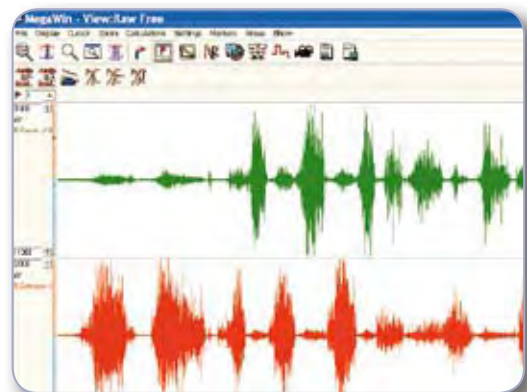
① ME8000 Laboratory System

Designed mainly for research and rehabilitation purposes. Collection rate of up to 10.000Hz for each channel and the filtering band can be adjusted individually.

The system is available in 8 or 16 channels with the option of connecting other sensors such as goniometers, accelerometers and external equipment via an isolation unit.

Order codes
MP-MESP8M ME8000 8 channel hard wired EMG system
MP-MESP16MS ME8000 16 channel hard wired EMG system

WinAnalyze Motion Analysis Systems

Range of video motion analysis systems with latest auto-tracking windows software. Easy to use software allows use of existing standard digital video equipment. Systems available as software only or as complete packages for both 2D and 3D analysis with either normal or high speed cameras.

② WinAnalyze software

Tracks objects in digital image sequences and delivers analysis of object motion. Automatic object tracking eliminates need for inconvenient manual data input and can even be used without reflective markers.

- Highly sophisticated image processing algorithms
- Can be used without markers
- Analysing AVI sequences
- Analysing panning and zooming camera recordings
- Sub pixel accuracy tracking
- Optional pre-processing of the image sequences
- Calculation and analysis of velocity, acceleration and angles
- Calculation and analysis of centres of mass with body models
- Can be used with high-speed, high-resolution cameras or conventional DV cameras

Order codes
MEG-Motion 2D
MEG-Motion 3D

WinAnalyze 2D Systems

Complete system with Pentium 4 PC workstation, camera, tripod, reflective markers and software. Packages are available for analysis at 50, 500 and 1825 frames per second.

Order codes
MEG-Motion 50-2D Normal speed analysis system - 50fps
MEG-Motion 500-2D High speed analysis system - 500fps
MEG-Motion 1825-2D High speed analysis system - 1825fps

WinAnalyze 3D Systems

Complete 3D motion and gait analysis system comprising - Pentium 4 workstation, 2 or 4 digital or fastcam HS cameras, tripods, cables, reflective markers, calibration model & software. Upgrade from normal to high speed available.

Order codes
MEG-Motion 50-3D2 Analysis system - two cameras - 50fps
MEG-Motion 50-3D4 Analysis system - four cameras - 50fps
MEG-Motion 500-3D2 Analysis system - two cameras - 500fps
MEG-Motion 500-3D4 Analysis system - four cameras - 500fps

Video Cameras and accessories

For further information on video camera and system accessories such as reflective markers and calibration models please contact our sales team.
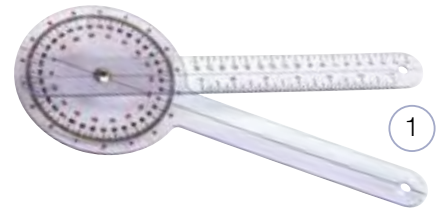

1
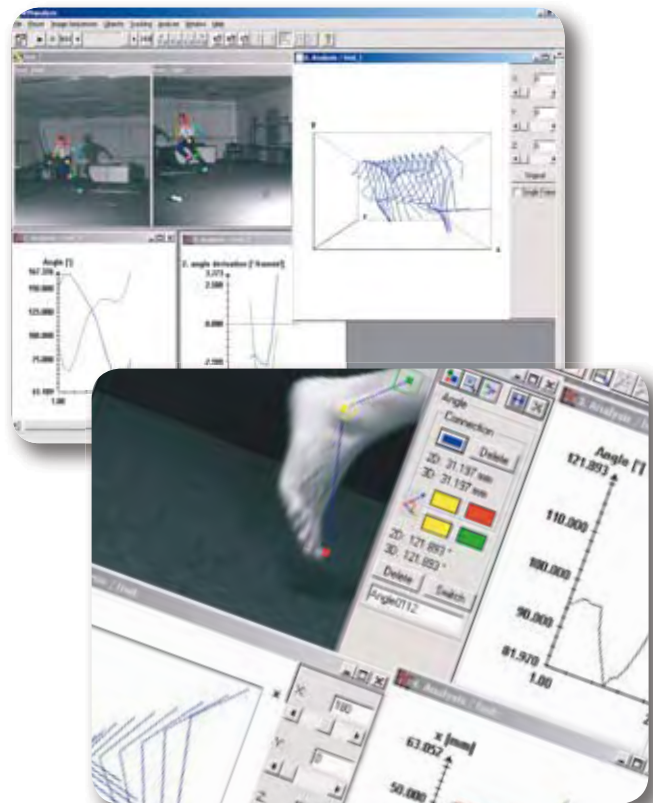
2

1 **Plastic Goniometers**

These goniometers are manufactured in a strong, clear plastic and have three scales calibrated with the International Standards of Measurement System.

Available in 2 sizes - 8" and 12".

Order codes

GON35   Plastic Goniometer 8"
GON40   Plastic Goniometer 12"

2 **Clinical Goniometer**

This goniometer has been specially designed for easy use in the clinical environment. The clear, unambiguous dial makes for easy reading of the angle.

It is extremely robust, small enough to carry in a pocket and can measure ranges of joint motion not easily obtained using conventional models. By maintaining the goniometer on a fixed spot on the subject and moving the joint through its range of motion, the angle can be read off directly from the dial.

Order code   **CG**   Clinical Goniometer

3 **Leighton Flexometer**

A highly accurate, 360˚, gravity type goniometer designed specifically for measuring the flexibility of major segmental movements of the body as an aspect of fitness, rehabilitation and athletic performance.

It has fully adjustable strap attached allowing it to be fixed to virtually any part of the body to provide many different measurements.

The unit consists of a twin rotating dial construction with ingenious locking mechanism to ensure easy and accurate measurements. The Leighton Flexometer comes complete with an extensive manual explaining the various test protocols that are possible.

Order code   **C360**   Leighton Flexometer

4 **Takei Flexmeters**

Forward

This forward flexmeter is a simple device for measuring "stand and reach" with an easy to read scale allowing accurate measurements to be obtained.   Range -20 to 35cm

Backward

A floor standing device for back flexion measurements with hinged measuring arm to allow maximum results to be made.
Range 10 to 80cm

Order codes

TKK5003 Forward Flexmeter Analogue
TKK5103 Forward Flexmeter Digital
TKK5004 Backward Flexmeter Analogue
TKK5404 Backward Flexmeter Digital

5 **Sit & Reach Box**

Simple device to measure trunk flexion.
Robust, sheet steel construction with sliding magnetic measuring bar.
Range 0 - 55cm.

Order code   **SARM**   Sit & Reach Box Metal

bio-mechanical measurement

BIOMETRICS

① Biometrics Clinical Goniometry Systems

Basic packs of instrumentation & sensors for static joint angle readout.

CS   1 x Angle Display Unit, 2 x connect leads, instrument case
           with tape and scissors and 1 x Goniometer
           (choice of SG65, SG110, SG110A, SG150, SG150B).

CS-X   1 x Angle Display Unit, 2 x connect leads, instrument case
           with tape and scissors, 1 x Goniometer SG110,
           1 x Goniometer SG150 and 1 x Torsiometer Q150.

Order codes

CS65   With wrist sensor   **CS110**   With elbow/neck sensor
CS110A With ankle sensor   **CS150**   With knee/hip sensor
CS150B With back sensor   **CS100X**   With elbow/neck, knee/hip
                                                 & forearm/back sensors

② Biometrics Laboratory Systems

The Laboratory Systems package the DataLiNK 8 channel
amplifier with the most often requested sensors in either basic or
enhanced configurations.

LS800   1 x DataLINK and software, 1 x event marker,
           1 x contact switch assembly, 8 x connect leads,
           instrument case with tape and scissors, 2 x SG65,
           2 x SG110 and 2 x SG150 Goniometers.

LS900   1 x DataLINK and software, 1 x event marker,
           1 x contact switch assembly, 8 x connect leads,
           instrument case with tape and scissors, 2 x SG65,
           2 x SG110, 2 x SG150 Goniometers,
           1 x Q150 Torsiometer, 4 x EMG Pre-amplifiers,
           Earthing strap and 1 x EMG sensor tape (350/pack).

Order codes

LS800 Laboratory Goniometry
LS900 Laboratory Goniometry & EMG

③ Biometrics Portable Systems

Comprehensive packages of sensors and instrumentation for
static and dynamic measurements in clinical settings, research
centres or any remote locations like workplaces or sports fields.

PS800   1 x DataLOG and software, 1 x event marker,
           1 x AngleDisplay Unit, 8 x connect leads,
           instrument case with tape and scissors, 2 x SG65,
           2 x SG110 and 2 x SG150 Goniometers.

PS850   Earthing strap, 1 x EMG sensor tape (350/pack)
           and instrument case with tape and scissors.

PS900   1 x DataLOG and software, 1 x event marker,
           1 x Angle display unit, 8 x connect leads,
           2 x SG65, 2 x SG110, 2 x SG150 Goniometers,
           8 x EMG Pre-amplifiers, Earthing strap,
           1 x EMG sensor tape (350/pack),
           and instrument case with tape and scissors.

Order codes

PS800 Portable Goniometry   **PS850** Portable EMG
PS900 Portable Goniometry and EMG

④ Biometrics Deluxe Data Acquisition System

Combines both DataLOG and DataLiNK units together with
a comprehensive package of sensors to provide a complete
solution to goniometry and EMG monitoring.

DS300   1 x DataLiNK and software, 1 x DataLOG and software,
           2 x event marker, 8 x connect leads, 2 x SG65,
           2 x SG110, 2 x SG150, 2 x SG110A,
           1 x SG150B Goniometers, 1 x Q150 Torsiometer,
           8 x EMG Pre-amplifiers, Earthing strap,
           1 x EMG sensor tape (350/pack) and instrument case
           with tape and scissors.

Order code   **DS300**   *NOT ILLUSTRATED*

① Biometrics Components and Sensors

Portable displays and amplifiers interface with the range of sensors for quick, simple and accurate measurements.
May be purchased separately for specific user requirements.

Order codes   *NOT ILLUSTRATED*
ADU301   Angle display unit 2 channel
K100   Analogue amplifier 4 channel
F35   Goniometer for finger/toe measurements
SG65   Goniometer for wrist measurements
SG110   Goniometer for elbow/ankle/neck measurements
SG110A Goniometer for ankle measurements
SG150   Goniometer for knee/hip measurements
SG150B Goniometer for back measurements
Q110   Torsiometer for neck/forearm measurements
Q150   Torsiometer for forearm measurements
New Products
NC1   Angle-X movement sensor small (finger & hand)
NC2   Angle-X movement sensor large
GX1   Myo-EX EMG pre-amplifier with integral electrodes
GX2   Myo-EX EMG pre-amplifier for disposable electrodes

② Takei Analogue Handgrip Dynamometer

Large, easy to read scale and pointer to allow quick and easy recording of results. Adjustable stirrup for comfortable use.
Range   0 – 100kg   Graduation 0.5kg

Order code   TKK-5001

③ Takei Digital Handgrip Dynamometer

Large, easy to read LCD screen providing quick and accurate measurements. Adjustable stirrup for comfortable use.
Range   5.0 – 100kg   Graduation 0.1kg

Order code   TKK-5401

④ Takei Analogue Leg/Back Dynamometer

Large, easy to read scale and pointer indicating peak reading to allow quick and easy recording of results. Handle and adjustable chain length ensure comfortable use.
Range   0 – 300kg   Graduation 1kg

Order code   TKK-5002

⑤ Takei Digital Leg/Back Dynamometer

Large LCD screen allow measurements to be made with greater accuracy and resolution than the 5002. Handle and adjustable chain length ensure comfortable use.
Range   20 – 300kg   Graduation 0.5kg

Order code   TKK-5402

⑥ MIE Digital Pinch/Hand Grip Analyser

Measures hand grip and finger "key grip" pinch performance. Transducer connected to digital unit displaying true force values in Newtons, Kilograms or Pounds. Gives peak or instantaneous display of force. Auto zero button for ease of calibration. Accurate to one Newton across physiological range.

Order code   DGM with CAS software

MIE Digital Myometer

Multi-functional force analyser measuring magnitude of isometric contractions in various muscle groups. Transducer measures force which software automatically converts to the more useful measure of torque. Data therefore displayed as a measured torque (Nm) about a joint. Provides full graphical and numerical data for both strength and endurance tests.

Order codes   *NOT ILLUSTRATED*
DMM   Digital myometer with CAS software
CGM   Combined pinch/hand grip & myometer with CAS software

bio-mechanical measurement

1 Lode Pinch grip Dynamometer

Easy to handle and provides reliable measurements.
Wide measuring range and accuracy make it perfect for research.

Measuring range	0 -150N
Dimensions	Beam 98mm x 30mm x 30mm,
	Amplifier 280mm x 315mm x 85mm
Weight	Beam 141g, Amplifier 2150g

Order code

LOD-915901   Pinch grip Dynamometer transducer

2 Lode Handgrip Dynamometer

Ergonomically formed measuring beam connected to amplifier.
Read measured values from amplifier display or with optional PC
connection package. System can show peak force (i.e. highest
measured value for more than 5 seconds)

Measuring range	0 -1000N
Dimensions	Beam 216mm x 24mm x 65mm,
	Amplifier 280mm x 315mm x 85mm
Weight	Beam 612g, Amplifier 2150g

Order code   **LOD-915900**

3 Just Jump System

Measures vertical jumps. Times both sprints and foot speed.
Hand held computer displays height and hang time for one jump,
average height, ground time, explosive power for four jumps and
sprint times. Additional power testing software package available.

Order code   **JJP-7610P**

4 Takei Digital Jump Meter

Vertical jumping height apparatus is waist fitted with a cord
secured to a rubber mat. Obtain results via large, easy to read,
LCD screen.

Order code   **TKK-5106**

5 Tip to Tip Jump Board

Simple, effective device for measuring jumping height relative to
height of athlete. Can be fixed to any suitable vertical surface

Order codes

H/T2T   Tip to Tip Jump Board
H/T2THG   Tip to Tip Jump Board with height measuring gauge

6 Standing Long Jump Junior

Fully graduated lightweight folding mat for standing long jump.
Laminated activity card supplied.

Order code   **P/SLJ**

Standing Long Jump Intermediate

Fully graduated, portable mat for standing long jump includes
own carrying bag. Laminated activity card supplied.

Order code   **H/SLJM**

Standing Long Jump Senior

Fully graduated mat for standing long jump competition.
Includes foam landing mat and wooden take-off board

Order code   **H/SLJ**
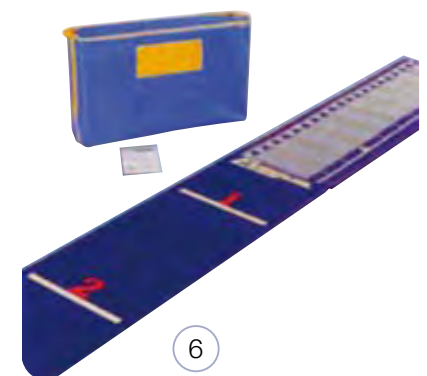
Featuring a wide
range of high quality
respiratory products,
from the latest
spirometry equipment
to the simplest of
accessories such
as nose clips
and connectors.

MICRO MEDICAL

1 Micro Medical Respiratory Pressure Meter

Portable, non-invasive solution for accurate assessment and management of the strength of respiratory muscles.

Order codes

MRPM01   Respiratory pressure meter
MRPM01S   Puma software

1

2 Micro Medical MS01/MS03 Spirometers

Specifically designed for situations where a low cost respiratory monitor is required.
The MS01 measures FEV1 and FVC.
The MS03 can also measure PEF and FER.

Order codes

MS01   Micro Spirometer (FVC & FEV1)
MS03   Micro Spirometer Plus with RS232 output

3 Micro Medical ML3535
Micro Loop Spirometer

The ultimate pocket spirometer, allows high quality measurements to be made virtually anywhere. Featuring a bi-directional digital volume transducer with proven accuracy and stability, the Micro Loop displays, actual, predicted and percent predicted data with the option of interpretation and predicted lung age.

Order codes

ML3535   Micro Loop Spirometer with LCD display
ML3535S Micro Loop Spirometer with Spida 5 software
MRT6000 Airway resistance option

2

3

4 Micro Medical ML3500
Micro Lab Spirometer

Class-leading, high definition screen. Displays Volume/Time and complete Flow/Volume Loops (using either open or closed loop test techniques). Can measure up to 36 spirometry indices and has storage capacity for over 1000 patient test sessions.

Order codes

ML3500   Micro Lab Spirometer with printer (no software)
ML3500S Micro Lab Spirometer with Spida 5 software

5 Micro Medical ML2525
USB PC Spirometer

Advanced Spirometer that plugs directly into PC.
Software is structured around Spida 5 with its user-friendly modern multi-window visual interface. Measure up to 41 spirometry indices, open/closed loop test techniques and overlay previous test curves.

Order code   ML2525

4

6 Micro Medical SPIDA 5
Spirometry Software

Spida 5 is a 32-bit package which is simple to use and employs a state of the art multi-window, graphical interface.
Up to 41 spirometry indices can be measured, previous test curves overlaid for comparison and both open and closed flow/volume loop test techniques used.

NOT ILLUSTRATED

Order code   SD5000

5

⑦ Micro Medical MK8 Spirometer

- Stylish new design
- Onscreen QWERTY keyboard for simple data entry
- High definition, true colour touch screen
- Easy-load, high speed printer
- Help button for instant on-screen guidance
- USB connectivity for PC and external HP A4 printouts
- Quality control prompts to ensure acceptable technique
- Predicted values calculation and interpretation
- Reversibility testing with % change calculation
- Animated incentive display
- Large internal memory for storage of full spirometry reports
- Links to Spida and SpidaXpert PC spirometry software
- Up to 45 parameters measurable
- Conforms to all spirometry standards (ATS, BTS, ERS)
- Rechargeable battery or mains power
- Supplied in a tough and attractive carry case
- Dimensions – 255 x 120 x 28mm
- Unit weight – 715g

Order codes
MK8-SPIRO Spirometer
MK8-SPIDA Spirometer and SPIDA 5 package

⑧ Mini Peak Flow Meter M3410

Determines the maximum expiratory peak flow rate. Supplied complete with instructions for use and universal mouthpiece.

Order code M3410

⑨ TurboAire Challenger

The TurboAire Challenger is an excellent source of portable arctic air for bronchial provocation and Exercise Induced Asthma studies throughout the year. Perform bronchial challenge using cold air, without the wait or worry associated with obtaining methacoline. Schedule tests when convenient. The TurboAire Challenger supplies cold air any time, anywhere.

- Low temperature -20°C
- Lightweight
- Instant cold dry air
- Ease of use with either exercise or isocapnic hyperventilation
- Operates on compressed air from tanks
- No electricity, chemicals, or liquids
- No maintenance
- Low cost, economical operation
- Adult and paediatric mouthpiece options

Order codes

2009	TurboAire Challenger with digital Thermometer
2009-1	High Pressure Hose
2012	Target Ventilation Meter
9055	Support Arm System with tabletop clamp
112078-2600	T shaped NRB Valve Medium 35mm ports
112079-2700	T shaped NRB Valve Large 35mm ports
1003	Large Adult Mouthpiece

respiratory monitoring
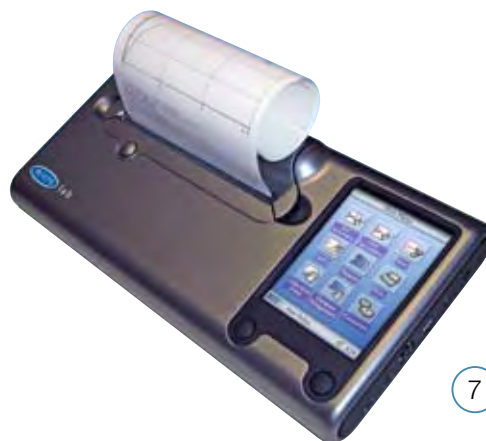
1   Hans Rudolph Fixed Orifice Pneumotachs

Fixed-orifice pneumotachs for use with the RSS 100 Research Pneumotach system.

Adult Flow Sensor

Range   1.0 to 180 L/min
Accuracy   +/- 3% of reading
Resolution   0.1 L/min

Neonatal Flow Sensor

Range   0.24 to 40 L/min
Accuracy   +/- 3% of reading
Resolution   0.01 L/min

Order code

171109   Adult Fixed-Orifice pneumotach
171110   Neonatal Fixed-Orifice pneumotach

Hans Rudolph Linear Pneumotachs

Specifically designed, patented and manufactured for Physiological and Respiratory testing, the Hans Rudolph linear pneumotachs utilise a unique housing configuration and screen assembly design to convert the flow of gas in either direction into a proportional linear signal of differential pressure from the two pressure taps for input into a differential gas pressure transducer. Models are available with the appropriate parameters, such as Volume Dead Space, Linear Flow Range and Large/Small Flange Port tube size connection.
All models are available as Heated and Non-Heated Pneumotachs and are supplied with an individual calibration record.

Order codes

3830   Adult heated pneumotach (0-400 L/min)
4830   Adult non-heated pneumotach (0-400 L/min)
3813   Adult exercise heated pneumotach (0-800 L/min)
4813   Adult exercise non-heated pneumotach (0-800 L/min)

Many other models available

Hans Rudolph Heater Controls

Proportional solid state heater control accurately regulate temperature.

Order codes

3850AF   Heater control for one pneumotach (230v - 50Hz)
3850BF   Heater control for two pneumotachs (230v - 50Hz)

Hans Rudolph Pneumotach Amplifier series 1110

Provides the instrumentation necessary to produce an analogue output proportional to flow when connected to any Hans Rudolph linear pneumotach. It will also provide an analogue output of an independent auxiliary pressure signal for measurement of pressure anywhere in the circuit.

Features

- Flow Ranges from 0-3, 0-5, 0-10, 0-35, 0-100, 0-160, 0-400 and 0-800 litres per minute
- Zero and gain adjustment pots for both outputs
- LED Flow direction indicator

Order codes

1110A Pneumotach amplifier +/- 70cmH$_2$O range
1110B Pneumotach amplifier +/- 140cmH$_2$O range

Hans Rudolph Research Pneumotach RSS100

The RSS100 and RSS100/HR research systems measure gas flow using the differential pressure method. As gas flows through the pneumotach, the microprocessor based system converts the measured differential pressure to volumetric flow rate. Flow and pressure measurements are used to calculate several ventilatory parameters such as respiratory rate, lung compliance, tidal volume, minute volume, positive end expiratory pressure, etc.

Features

- Custom Windows software for displaying, storing and reviewing data
- Embedded microprocessor calculates flow rates and provides correction for gas density, viscosity, temperature, barometric pressure and airway pressure
- Flow Ranges from 0-3, 0-5, 0-10, 0-35, 0-100, 0-160, 0-400 and 0-800 litres per minute

The RSS100/HR is for use with linear pneumotachs. Please order the appropriate Hans Rudolph heated or non-heated linear pneumotach and heater control unit.
The RSS100 is for use with adult and neonatal fixed-orifice pneumotachs.

One of each size is supplied with the module.
Additional quantities sold separately.

Order codes

RSS100   Research pneumotach system
RSS100/HR   Research pneumotach system

respiratory monitoring

② Mouthpieces – vinyl

General purpose soft blue vinyl reusable mouthpieces.

Order codes

1004   Paediatric mouthpiece
1002   Small adult mouthpiece
1000   Medium adult mouthpiece
1001   Medium large mouthpiece
1003   Large adult exercise mouthpiece

Mouthpieces – silicone rubber

High quality silicone rubber reusable mouthpieces

Order codes

602070-9063 Silicone rubber mouthpiece 35mm-38mm
602073-9062 Silicone rubber mouthpiece 28mm-33mm
602077-9066 Silicon mouthpiece with saliva trap 35mm-38mm
602078-9065 Silicon mouthpiece with saliva trap 28mm-33mm

Mouthpieces - disposable

To suit most peak flow spirometry systems.
Cardboard mouthpieces packaged in 500.

Order code   **DMP-1188**

Nose clips

Disposable injection moulded plastic with soft vinyl nose pads
Stainless steel, torsion sprung design with soft silicone rubber nose pads and foam cushion.

Order codes
201413-9014   Disposable nose clip
112571-9015   Reusable spring nose clip

Filters

Order codes
1420/1   Bactiguard bacterial filter (box of 50)
2800/01   Spiroguard bacterial/viral filter (box of 50)
FIL6050   Disposable filter for MRT6000 (pack of 50)

Connectors

A wide range of 2-way and 4-way precision machined connectors available.

Directional Valves

This "T" shape stopcock has a 28.6mm ID bore through the port adapters to provide good laminar flow. In the normal position, the flow is straight through from the inlet side to an outlet adapter (port).

Order codes
112230-2100C 3 way T shaped stopcock 35mm ports
112253-2500C 4 way T shaped stopcock 35mm ports
112256-2400C 5 way T shaped stopcock 35mm ports

③ Breathing Valves

Order codes
SAL-VALVE   Lightweight T shaped NRB Salford valve
112078-2600   T shaped NRB valve medium 35mm ports
112079-2700   T shaped NRB valve large 35mm ports
112262-2600B   T shaped NRB valve medium with saliva collector
112263-2700B   T shaped NRB valve large with saliva collector

④ Breathing Masks

7900/8900 series
Standard mouth only and mouth & nasal silicone breathing masks

Order codes
201018   NMB Face Piece adult medium with cap, straps & clips
201020   NMB Face Piece adult large with cap, straps & clips
201021   NMB Face Piece adult small with cap, straps & clips
200595   MB Face Piece adult medium with cap straps & clips
200596   MB Face Piece adult small with cap, straps & clips
200537   MB Face Piece paediatric large with cap, straps & clips
200542   Adaptor adult mask to 2700 valve
200543   Adaptor adult mask to 2600 valve
SAL-ADAPTOR Adaptor adult mask to Salford valve

7400 series
New reusable "V Mask" for exercise stress testing. This new translucent blue face mask has a new anatomically contoured face piece and sealing flange shape with ribbed support on the nose area for a leak-free comfortable fit. Multi-patient, multi-use, reusable & steam autoclavable. Optional Sensa Seal provides an additional sealing surface around the bridge of the nose when needed. Headgear and adaptors sold separately.

Order codes
669170 "V-Mask" large, face piece only
669171 "V-Mask" medium, face piece only
669172 "V-Mask" small, face piece only
669173 "V-Mask" extra small, face piece only
669174 "V-Mask" petite, face piece only
201418 Large quick-release headgear
200525 Cap, straps and clips (all sizes)

RESPIRATORY ACCESSORIES

1 Douglas Bags and accessories

Order codes

300-1316	Douglas Bag 1 litre
300-1200	Douglas Bag 2 litre
300-1309	Douglas Bag 5 litre
300-1218	Douglas Bag 10 litre
300-1201	Douglas Bag 25 litre
300-1310	Douglas Bag 30 litre
300-1311	Douglas Bag 40 litre
300-1134	Douglas Bag 50 litre
300-1312	Douglas Bag 60 litre
300-1065	Douglas Bag 100 litre
300-1043	Douglas Bag 150 litre
300-1199	Douglas Bag 200 litre
300-1313	Douglas Bag 250 litre
300-1314	Douglas Bag 300 litre
300-1315	Douglas Bag 500 litre
300-1306	Douglas Bag 1000 litre
50-7624	Drain plug
50-7699	Spring plug
A-1056-14	Douglas Bag 1" adaptor assembly
A-1080-06	Douglas Bag tubing adaptor (35mm)

2 Calibration Gases & Accessories

Order codes

MicroCan 20	Calibration gas can 20L (5% CO2, 17% O2)
MicroCan 20	Calibration gas can 20L (100% Nitrogen)
MicroFlow	Control valve & flow indicator (MicroCan20)
MicroCan 110	Calibration gas can 110L (5% CO2, 17% O2)
MicroCan 110	Calibration gas can 110L (5%C02 balance Nitrogen)
MicroCan 110	Calibration gas can 110L (100% Nitrogen)
Pressreg1	Variable pressure regulator (MicroCan110)
Microreg	Preset flow regulator 1000ml/min
Case 1	Plastic carrying case to house 2 x 110L cylinders

3 Drierite

Drierite desiccant used to absorb moisture in gas analysis sampling circuits.

Order code 1035   Drierite 1lb bottle

4 Volume Calibration Syringes

A range of highly accurate calibration syringes.
Shafts with multiple graduations and adjustable stop.

Order codes

112742-5550	Calibration Syringe 0.5 litre
112706-5540	Calibration Syringe 1 litre
112028-5530	Calibration Syringe 3 litre
112092-4900	Calibration Syringe 7 litre

Motorised calibration syringes

With optional metabolic simulator

Order codes

17050-2	Motorised Calibration Syringe 2 litre
17050-4	Motorised Calibration Syringe 4 litre
17051	Metabolic Accessory Kit for expired Ventilation

The above list of respiratory products represents a small part of our extensive range. Please call for details.

Having gained
experience in using
the Metamax 3B
portable gas analysis
system over the past
three years, I have
only positive things
to say about it.

*Simon George
University of
Wolverhampton*

CRANLEA

(1) Douglas Bag Analysis Systems

The traditional way of measuring Oxygen Uptake has been to use Douglas bags. However, difficulty in being able to mate the various components and avoiding leaks has always been a problem. We offer a wide range of complete gas collection and analysis systems using the highest quality components available. Also included is analysis software and instructions.

Collection package comprises
Black, steel frame to support 4 bags
1 x Hans Rudolph 2700 breathing valve
4 x Hans Rudolph 2100C stopcocks
3 x Mouthpieces & nose clips
2 x 4 way sample stopcocks
4 x 100 litre Douglas bags
Breathing & sample tubes

Analysis Package as above plus
Digital dry gas meter   Extraction unit
Temperature monitor   Drying tube & Drierite
Additional breathing and sample tubes

The system can be supplied with alternative breathing valves, mouthpieces and nose clips, as well as different sizes of Douglas Bags. Please contact us for details.

Order codes
DBS4   Douglas bag collection package 4 x 100 litre
DBS4+   Douglas bag analysis package 4 x 100 litre

Gas analysers sold separately.

(2) Douglas Bag Extraction Unit

This product is designed to evacuate a Douglas bag via the Digital Dry Gas Meter, at the correct flow rate.
The system consists of a high flow, 240 volt pump with a rotary controller, contained in a robust steel case.
Tapered hose adaptor suits most sizes of breathing tube.

Order code   CRADBEU

(3) Digital Dry Gas Meter

The model 6162 is a diaphragm type, positive displacement dry test meter, ideal for measuring the volume of expired gas collected in Douglas Bags or gases drawn through a system. The tapered inlet and outlet ports are suitable for most commonly used breathing hoses.

Specifications
Accuracy   ± 1.5%   Tapered ports 22-35mm
Display   4 digit LCD   Range   0-999.9 litres
Resolution 0.1 litre   Power supply   9V battery

Order code   6162

HITECH

(4) Hitech Oxygen & Carbon Dioxide analyser

Accurate Oxygen and Carbon Dioxide analyser with integral sample pump, flow meter and flow control valve.
The system is enclosed in a sturdy steel case with carrying handle for easy transportation.

Specifications
Ranges   0 -10% CO_2, 0-25% O_2
Resolution   0.01% O_2 & CO_2
Programmable alarm output

Order codes
GIR250   Combined oxygen and carbon dioxide analyser
235/0047 Replacement O_2 cell

SERVOMEX

(5) Servomex 1440 Oxygen & Carbon Dioxide analyser

Provides high performance measurement of gases, available in single modules measuring either Oxygen or Carbon Dioxide or dual version measuring both.

Also available as a fast response analyser, with a response time of <200msecs at 150ml/min.

Accuracy   O$_2$ ± 0.1%   CO$_2$ ± 0.1%

Order codes

1440	O$_2$/CO$_2$ analyser - with sample pump
1440 CO2	CO$_2$ analyser - with sample pump
1440 O2	O$_2$ analyser - with sample pump
1440SP	Sample pump for 1440 analyser fitted
1440FR	Fast response O$_2$/CO$_2$ analyser with sample pump

(6) Servomex 5200 Multi Purpose analyser

Suitable for measuring levels of Oxygen, Methane, Carbon Dioxide and Carbon Monoxide. It has a range of sampling and power options to suit individual needs.
Available with a choice of two paramagnetic oxygen transducers (standard and high accuracy). They both offer fast, selective measurement of Oxygen, without the disadvantage of electro-chemical or zirconia cells.

Accuracy   O$_2$ ± 0.1%   CO$_2$ ± 0.1%

Order codes

5200S	O$_2$/CO$_2$ analyser - standard
5200HA	O$_2$/CO$_2$ analyser - high accuracy
5200/02	O$_2$ analyser - standard
5200HA/02	O$_2$ analyser - high accuracy
5200/C02	CO$_2$ analyser - standard

Factory fitted options

5200 BAT	Rechargeable internal battery
5200 OUT	4 - 20 mA output per channel
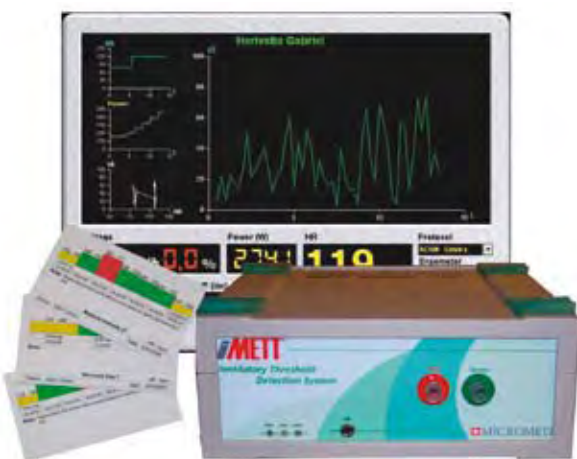
WOODWAY

(7) Woodway iMETT

Now everyone can experience the benefits of VO$_2$ testing. The iMETT from Woodway is an easy to use, inexpensive metabolic testing system that evaluates and monitors aerobic fitness by determining each individual's anaerobic threshold. Create individualised weight loss or aerobic fitness programmes and incorporate the iMETT assessment into existing training packages.

Each iMETT program includes

• VE analyser with software to determine cardio programmes
• Design testing protocols
• Additional fitness assessments

Other fitness evaluations are based on predictions, estimates and outdated charts. We're all familiar with 220 minus age – but these programmes have large margins of error and a history of unreliable results.

Determine a true heart rate training zone with a precise submax VO$_2$ test. From the data you'll be able to provide customised exercise prescriptions that can help athletes reach their exercise goals quickly and safely.

Order code   iMETT

metabolic measurement

CORTEX

Cortex MetaLyzer II Laboratory Mixing Chamber System

Stationary metabolic stress test system for routine exercise testing applications using a dynamic mixing chamber system.

All systems are supplied with the latest version of Metasoft which comes packed with features to enhance the analysis and measurement functions.

Available with either standard or high flow volume transducer.

Transducers
DVT   0.1 to 12 l/s
TripleV   0.05 to 20 l/s

Order codes
COR-210-01-996 MetaLyzer II Metabolic system with DVT
COR-210-01-995 MetaLyzer II Metabolic system with Triple V

Cortex MetaLyzer 3B Laboratory Breath-by-Breath System

Powerful, fully equipped CPX system featuring true breath-by-breath and intra-breath technology.
With automatic verification tests prior to each measurement, the MetaLyzer is guaranteed to be working accurately at all times.
All MetaLyzers feature automatic control of most electronic ergometers and treadmills as standard.

Dimensions   235 x 165 x 85mm
Weight   1660g

Order codes
COR-220-01-009 MetaLyzer 3B Metabolic system with DVT
COR-220-01-008 MetaLyzer 3B Metabolic system with Triple V

MetaLyzer Options

A variety of options are available for the MetaLyzer including Spirometry, Pulse Oximetry, Motion tolerant NiBP, Nutritional Assessment and Non-Invasive Cardiac Output.
The MetaLyzer can also be supplied with the latest SmartCart trolley, fully set-up PC workstation package with dual screen monitors, Automatic Gas Calibrator and a complete 12 lead ECG system.

Order codes
COR-720-09-016 Spirometry software module
COR-720-09-018 Nutritional assessment software module
COR-720-09-17 Non invasive cardiac output software module
COR-010-01-996 Automatic gas calibrator
COR-010-01-994 Calibration kit basic
COR-010-01-993 Calibration kit full
COR-720-09-017 Cortex zone trainer
COR-670-01-003 3 Channel monitoring ECG (ML3B)
COR-630-01-001 Treadmill connection cable 5m (Woodway)
COR-610-01-003 Ergometer connection cable 3m (Lode)

CORTEX

(4) Cortex Statera

Unlike classical stress testing which requires maximal patient effort to calculate useful results, Statera calculates patient risk using linear regression analysis. This means that significant patient risk data can be obtained using a shorter, less stressful test for the patient.

The Statera test system can be combined with a fully integrated 12-lead ECG stress test and also be interfaced to other peripheral devices (e.g. Blood Pressure)

Order codes

COR-720-01-990   MetaLyzer 3B Statera system
COR-720-01-993   MetaMax 3B Statera system

(5) Cortex CardioLyzer Ultra

An easy to use, PC based 12 channel ECG with interpretation and stress test capability allowing ECG signals to be recorded and viewed during a full CPX test.

The CardioLyzer can also be used as a stand alone rest or stress test ECG, allowing you to assess cardiac and pulmonary function during exercise with one single test.

Order code

COR-420-01-980   12 channel ECG system

(6) Cortex MultiLyzer

The MultiLyzer module enables NiBP and Pulse Oximetry measurements to be performed and monitored using the latest Metasoft software. This option is available with both the MetaLyzer and the MetaMax.

NOT ILLUSTRATED

Order codes

COR-420-01-970   MultiLyzer base system
COR-420-01-09   MultiLyzer NIBP module
COR-420-01-008   MultiLyzer Pulse Oximeter (finger sensor)

(7) Cortex SmartCart Systems

The SmartCart give you the opportunity to turn either your MetaLyzer or MetaMax into a neat, well organised workstation on wheels. It accommodates the entire testing equipment on a sturdy base as well as offering a broad variety of configurations to customise the cart for your exact requirements.

Order codes

COR-821-01-903   Smartcart MetaLyzer laptop
COR-821-01-904   Smartcart MetaLyzer PC mobile
COR-821-01-901   Smartcart MetaMax laptop
COR-821-01-902   Smartcart MetaMax PC mobile
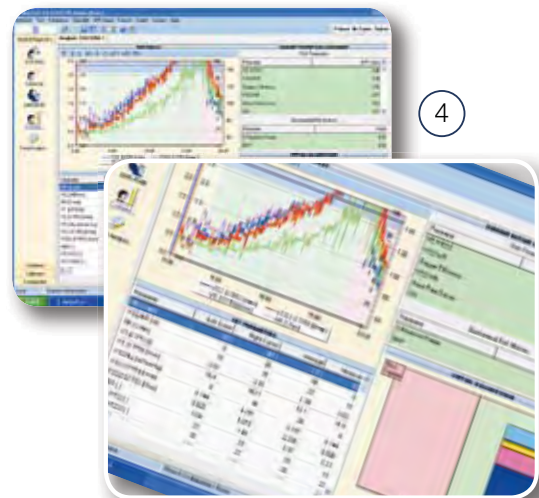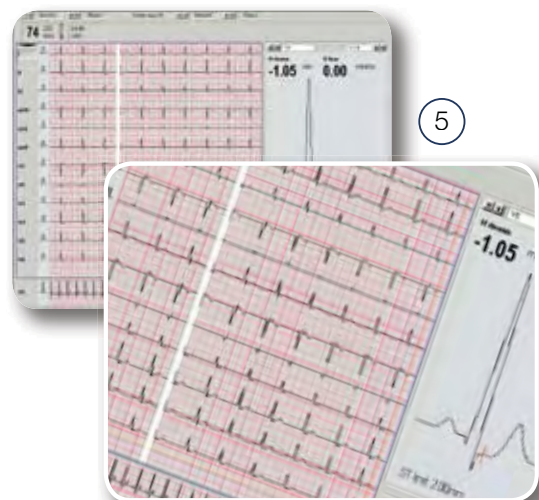
All Cortex metabolic systems are fully compatible with Lode ergometers and Woodway treadmills.

**For further information
please contact our sales team.**

metabolic measurement

CORTEX

Cortex MetaMax 3X Ambulatory Mixing Chamber System

The MetaMax 3X is a portable cardiopulmonary exercise system, combining a dynamic mixing chamber system with an award winning design.

- Bi-Directional telemetry allowing remote monitoring and storage of test data whilst sending audio commands.
- Real time audio feedback of test results for the athlete during testing.
- Superior mixing chamber technology for collection of data even under extreme testing conditions.
- 8Mb of on-board memory allowing full testing without PC
- Audio commands can be customised and sent direct to the athlete during testing.

Order codes
COR-140-01-990 MetaMax 3X Metabolic system with DVT
COR-140-01-993   MetaMax 3X Metabolic system with Triple V

Cortex MetaMax 3B Ambulatory Breath-by-Breath System

Portable cardiopulmonary exercise system using the clinically proven breath-by-breath technology. Powerful multi functional tool designed to fit into any demanding test environment.

- True breath-by-breath/intra-breath measurements.
- Unique shoulder design with unrivalled athlete comfort.
- Easy to expand from a stand alone system to integrated workstation.

Dimensions	120 x 110 x 45mm
Weight	590g

Transducers

DVT	0.1 to 12l/s
TripleV	0.05 to 20l/s
Telemetry frequency	433 to 434MHz
Range	up to 1000m

Order codes
COR-130-01-990 MetaMax 3B Metabolic system with DVT
COR-130-01-992 MetaMax 3B Metabolic system with Triple V

Cortex MetaMax Options

The MetaMax has a range of options including -

Spirometry, Ergometer/Treadmill control, MultiLyzer Pulse Oximetry & Blood Pressure, PC based 12 lead ECG System, Stationary Kit, SmartCart trolley and Calibration Kits.

Order codes
COR-720-09-016 Spirometry Software module
COR-720-09-009 Ergometer/Treadmill Control
for MetaMax
COR-420-01-970 MultiLyzer Base system
COR-420-01-009 MultiLyzer NIBP module
COR-420-01-008 MultiLyzer Pulse Oximeter
(finger sensor)
COR-670-01-004 3 channel monitoring ECG
COR-420-01-980 CardioLyzer Ultra
12 channel ECG system
COR-010-01-994 Calibration Kit basic
COR-010-01-993 Calibration Kit full
COR-130-01-996 MetaMax Stationary Kit

(1)

An extensive
range of products
for both in depth
laboratory and
portable analysis.

ANALOX

① Analox LM5 Champion Sports Lactate Analyser

The LM5 can obtain a lactate result on only 5µl of whole blood in less than 20 seconds from injection into the analyser.
In fully portable form, the P-LM5 lactate analyser provides one of the quickest near-patient lactate analysers available.

Order codes

LM5   Lactate analyser
PLM5   Portable Lactate analyser

② Analox GL5 Sports Multi-assay analyser

The GL5 MicroStat analyser offers the five simplest direct enzymatic-rate chemistries in one compact instrument.
For a relatively small additional capital cost above the single parameter analysers, the GL5 can measure Glucose, Lactate, Cholesterol, Urate and Alcohol.

Order codes

GL5   Sports Multi-Assay analyser
PGL5   Portable Sports Multi-Assay analyser

③ Analox GM7 Sports Multi-assay analyser

The GM7 Micro-Stat is a research analyser with a unique assay menu including Glucose, Lactate, Cholesterol, Alcohol, Acetoacetate, Urate, Urea, Pyruvate, Glutamine, Ammonia, Creatinine, 3-Hydroxybutyrate, Glycerol and Triglycerides.

Order codes

GM7   Micro-Stat Multi-Assay analyser
PGM7   Micro-Stat Multi-Assay portable analyser

Consumables

GMRD-102 Glucose Oxidase Reagent, 250ml, 360 cycles
GMRD-011 Glucose Standard 8.0mmol/L 30ml
GMRD-021 Uric Acid Reagent kit 70 cycles inc. 0.6mmol/L standard
GMRD-084 Cholesterol Reagent kit, 50 tests, including 5.2mmol/L standard
GMRD-090 Lactate II Reagent kit, 100 cycles
GMRD-092 Lactate II Reagent kit, 1000 cycles (4 x 250)
GMRD-093 Lactate II Reagent kit, 250 cycles
GMRD-100 Lactate II Reagent kit, 100 cycles with lysing buffer
GMRD-102 Lactate II Reagent kit 1000 cycles with lysing buffer
GMRD-103 Lactate II Reagent kit, 500 cycles with lysing buffer
GMRD-110 Ethanol standard, 100mg/dl, 4 x 1ml
GMRD-130 3- Hydroxybutyrate Reagent kit 20-45 tests inc. standard
GMRD-140 Pyruvate Reagent kit 20-40 tests inc. standard
GMRD-150 Blood Glutamine Reagent kit, 50 (2x25) tests
GMRD-162 Ammonia Reagent kit 20-40 tests inc. standard
GMRD-170 Creatinine Reagent kit 40-80 tests inc. standard
GMRD-177 Glycerol Reagent kit, 140 analyser cycles, incl. standard
GMRD-180 Acetoacetate Reagent kit 20-40 tests inc. standard
GMRD-195 Triglycerides Reagent kit, 140 analyser cycles, including standard
GMRD-050 Record Cards for capillary tubes (40 cards)
GMRD-053 Glass Capillaries for whole-blood analysis (500)
GMRD-054 Glass Capillaries for intact whole blood analysis (1000)
GMRD-055 Closures for Capillaries, 100/pack
GMRD-056 Closures for Capillaries, 500/pack
GMRD-074 Lactate/Pyruvate quality control serum 4 x 0.5ml
GMRD-047 Lysing tubes for 'total' blood lactate, 0.2ml, 500/pack
GMRD-070 Lysing capillary/micro centrifuge tubes, 250/pack
GMRD-072 Lysing capillary/micro centrifuge tubes, 100/pack
GMRD-113 Alcohol reagent kit, 50ml (70 analyser cycles)

ACCUTREND

(4) **Accutrend Cholesterol and Glucose analyser**

Fast, easy and reliable on-the-spot determination of blood glucose and cholesterol directly from capillary blood.

Features
Prompt results - Glucose 12 seconds and Cholesterol 3 minutes
Simple, handy coding with factory-provided bar code strip
Test strip storage at room temperature (2 - 30 °C)
Up to 50 glucose and 15 cholesterol values can be stored with date and time of measurement

Order codes
ACCUTREND   Cholesterol and Glucose analyser with starter kit
11418262165   Cholesterol reagent strips (25 tests)
11443054018   Glucose reagent strips (50 tests)
03307476001 SoftClix Pro multiple blood sampler
03307522001 SoftClix Pro lancets (200)

(4)

LACTATE PRO

(5) **Lactate Pro Blood Test Meter**

Measures lactate with only a small sample of blood (5µl).
The test strip collects an exact amount of blood and results are obtained in approximately 60 seconds.
Measuring range of 0.8-23.3 mmol/L.
Automatic temperature compensation using a built-in sensor.

Order codes
LT-1710   Lactate Pro blood test meter
LACTATEPRO1 Lactate Pro reagent strips (box 25)
LACTATEPRO2 Multi Lancet II device
LACTATEPRO3 Lancets for Multi Lancet II (box 50)

For multiple subject use please order the SoftClix Pro automatic blood sampler.

(5)

HEMOCUE

(6) **HemoCue Analysers**

Haemoglobin
Provides an opportunity for quick, simple and reliable quantitative Haemoglobin results. Any blood source (capillary, venous or arterial) can be used. Unbreakable, disposable cuvette collects the exact amount of blood and mixes the sample with the reagents automatically producing results in under a minute.

Plasma/Low Haemoglobin
Designed for determination of low haemoglobin levels in plasma, serum or aqueous solutions and accurately measures low haemoglobin concentrations in the ranges of 0.03—3.00 g/dl, 0.3—30.0 g/l and 0.02—1.90 mmol/l.

Glucose
HemoCue Glucose Systems are based on a glucose dehydrogenase method and consist of a small dedicated Analyser and a unique disposable microcuvette.

Order codes
HCU 12.01.11   B-Haemoglobin analyser with case
HCU 12.03.01   Plasma/Low Haemoglobin analyser
HCU 12.04.03 B-Glucose analyser
HCU 12.07.05 B-Glucose 201 analyser
HCU 20.03.04 Adult starter pack
HCU 11.01.16   B-Haemoglobin Microcuvettes (pack of 200)
HCU 11.07.08   B-Glucose 201 Microcuvettes (pack of 100)
HCU 11.04.04   B-Glucose Microcuvettes (pack of 100)
HCU 13.04.01   Safety Lancets (box of 200)
HCU 18.90.08   Carrying case
HCU 20.04.01 Battery eliminator 6v:350ma
HCU 13.90.01   Photometer cleaning spatulas (box of 5)

(6)

laboratory analysis

YSI

1. YSI 1500L Portable Lactate Analyser

Capable of monitoring a subject in most test environments. YSI have put laboratory accuracy in a portable unit that can be carried anywhere. Produces results in just 60 seconds, with 150 spaces of memory capacity. Also has time, date stamp and test subject ID.

Supplied with Pipettor or Injector. (please specify when ordering)

Order codes

BEG 1500L Portable Lactate analyser
BEG 1501 25ul Pipettor
BEG 1502 25ul Capillary Injector
BEG 1504 Lactate Reagent starter kit

2. YSI 2300 Glucose & Lactate Analyser

The only dedicated Glucose and Lactate analyser available. Makes precise measurements in whole blood or plasma. Measures Glucose in serum and Lactate in cerebrospinal fluid. Haematocrit correction option allows glucose results to be expressed as plasma, even when analysing whole blood.

Order codes

BEG 2300 Glucose and Lactate analyser
BEG 2323 Glucose and Lactate starter kit
BEG 1503 Preventative maintenance kit
BEG 2710 Turntable 24 position automated sampler

3. YSI 030 Osmometer

Complete system for the determination of colloid-osmotic pressure (oncotic pressure) of biological liquids

High performance measuring cell.
Minimum sample volume (approx 100-150ml).
Measuring time <1 minute.
Automatic zero setting.
Switchable display (mm Hg, cm water column or k-Pascal).
Problem free calibration.
Automatic rinsing of the measuring cell after each measurement.

Order codes

GNC 31.00 YSI 030 Osmometer
GNC 31.00 D YSI 030 Osmometer with built in printer

OSMOCHECK

4. Osmocheck

Osmocheck is a hand held Digital Refractometer calibrated from 0 to 1500mOsmols/kgH_2O which equates to a specific gravity of 1.000 to 1.043 or a refractive index of 1.333 to 1.350 This relationship has been derived empirically from a selection of 70 different urine samples.

Readings
Early morning urine samples are recommended. Readings above 600m Osmols indicate that rehydration is advisable, and over 800m Osmols that it is essential.

Order code   **PAL-OSMO**
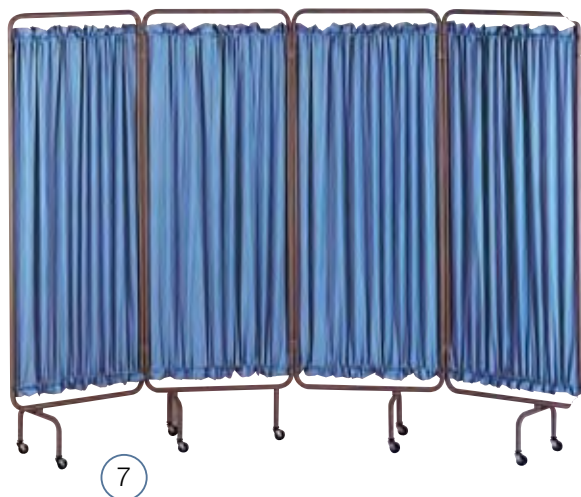
HAWKSLEY

Haematocrit Centrifuges

(5) **Mk IV Cube**

- High speed drive system
- Programme timer
- Precision balanced motor
- Fabricated sheet metal casing
- Interlocking lid
- Imbalance detector
- Automatic braking
- Low noise
- Fast accurate haematocrit

(6) **Mk V Pot**

- High Speed drive system
- Precision balanced aluminium construction
- Steel lid
- Fused input socket
- Haematocrit rotor machined from forged aluminium billet
- High speed – 12,000 rpm
- Strong and durable

Both the Mk IV and Mk V come with a choice of rotors.
Choose from: Multi Combo Rotor, 16 Place Combo Rotor,
20 Place Acetal Rotor, 8 Place Acetal Rotor or
24 Place Haematocrit Rotor.   Please specify when ordering.

Order codes
01300-00 Haematocrit centrifuge Mk IV cube
01400-00 Haematocrit centrifuge Mk V pot
01985-00 Multi combo rotor
01986-00 16 Place combo rotor
01881-00 20 Place Acetal rotor 30 degree fixed angle
01890-00 8 Place Acetal rotor closed fixed angle
01971-00 24 Place Haematocrit rotor with lid
01502-00 Reader
01560-00 Rotoreader and Magnifier
01561-00 Magnifier
01562-00 Rotoreader
01503-00 Cristaseal (box of 10 trays)
01603-00 Capillary tubes heparinised 75mm (box 10 x 100)
01604-00 Capillary tubes plain 75mm (box 10 x 100)
01605-00 Capillary tubes heparinised 75mm (box 1000)
01606-00 Capillary tubes plain 75mm (box 1000)
01504-00 Rim seal gaskets (pack of 20)

SCREENS

(7) **Privacy Screens**

2, 3 or 4 section chrome privacy screen.
Removable vinyl curtains available in Blue, Green or White.
Curtains supplied fitted.
50mm diameter free rolling castors.
Folds flat when not in use.
High stability with quality chrome finish.

Dimensions
2 Section 140cm overall length x 40cm x 180cm height
3 Section 210cm overall length x 40cm x 180cm height
4 Section 280cm overall length x 40cm x 180cm height

Order code
H620   Privacy Screen - 2 section
H63001   Privacy Screen - 3 section
H63001/4 Privacy Screen - 4 section

Please specify colour when ordering.

laboratory analysis

7

COUCHES

① Portable Treatment Couch

A strong, lightweight, metal frame, with breathing hole and covered in strong upholstery.
Complete with carrying handle.
Optional carry bag available.
Removable breathing hole insert.

Dimensions
Length 180cm Width 61cm Height 75cm Weight 15kg

Available in Memphis Blue or Beige. Please specify when ordering.

Order codes
TAB 30 Portable treatment couch with breathing hole
TAB 29 Carry bag

② Examination Couch

One piece welded steel frame ensures total stability
The adjustable head section has step-less angle adjustment from horizontal to approx 75°.
Paper roll holder is fitted as standard and is suitable for paper rolls up to 51cm wide.
Maximum Safe Working Load 190kg.

Order codes
EC/3   Examination couch
EC/STEP Optional step for examination couch

③ Hydraulic Variable Height Couches

These 2, 3 and 5 section couches are designed for examination and treatment and can also be used as a changing table.
Designed to withstand sustained heavy use.
Removable breathing hole insert.

Dimensions
Length 189cm   Width 65cm   Height 46 – 95cm

Available in 9 colours - Nubian Black, Memphis Blue, Cornflower Blue, Waddy Beige, Spruce, Fern Ash, Lomond and Islay

Please specify when ordering.

Order codes
PP105   Hydraulic couch - 2 section
PP125   Hydraulic couch - 3 section
PP120A   Hydraulic couch - 5 section

④ Electric Variable Height Couches

Electric couches designed for manipulation and all general treatment techniques.
They are extremely strong and are designed to withstand sustained heavy use.
Breathing hole with removable insert.

Dimensions
Length 189cm Width 65cm Height 46 – 95cm

Available in 9 colours - Nubian Black, Memphis Blue, Cornflower Blue, Waddy Beige, Spruce, Fern Ash, Lomond and Islay.

Please specify when ordering.

Order codes
PP115   Electric couch - 2 section
PP135   Electric couch - 3 section
PP120B   Electric couch - 5 section

For both static and ambulatory measurement of temperature and pressure we offer a full range of equipment to cover all your needs.

BAROMETERS

① Direct Reading Mercury Barometer

Barometer with a silvered metal scale, mounted on a polished hardwood board with spirit thermometer and separate Fahrenheit and Celsius scales.

Range   585 – 790mmHg

Order code   Type 66

② Fortin Mercury Barometers

Type 52
Black stove enamelled brass frame, with silvered scales, chromium plated fittings and mercury thermometer. Mounted on a hardwood board.
Range   650 – 825mmHg.

Type 54
Similar to Type 52, but with smaller bore tube.
Range   670 – 825mmHg.

Type 56
With engraved silvered scales on a square brass frame.
Range   650 – 825mmHg.

Note - All of the Fortin and Direct Reading barometers can be supplied with any two scales (mbar, mmHg or inches Hg). Please specify when ordering.

Due to the delicate nature and mercury content of the Fortin and Direct Reading Barometers, these products are subject to special delivery charges.

Order codes
Type 52 Fortin Barometer
Type 54 Fortin Barometer
Type 56 Fortin Barometer

③ Barometer-Hygrometer-Thermometer

• Barometer with easy to read weather forecasting symbols
• Current Barometric pressure reading (mBar)
• Measures indoor/outdoor temperature and humidity
• Temperature, pressure & humidity trend indicators
• Comfort level indicators
• Max/Min temperature and humidity memory
• Clock with alarm and calendar
• Frost alarm
• HiGlo backlight

Order code   BAA913HG

④ Precision Hair Hygrometer

Precision Hair Hygrometer with a well ventilated chromium plated case, utilising a specially treated hair element.

Operating range   0 to 100% R.H.
Accuracy   +/- 3% R.H.
Graduations   1% R.H.
Case diameter   100mm

Order code   HYG111

⑤ Whirling Hygrometer

Compact Whirling Hygrometer. Pocket sized black two piece hinged body that extends to form the instrument for instant use. Calculator scales are printed on case for slide rule simplicity. Complete with wick.

Order code   13/600/2   *NOT ILLUSTRATED*

6 **Gas Monitoring Thermometer**

With the probe fitted to the inlet port of a dry gas meter this thermometer gives the temperature of expired gas sample and ambient room temperature.

- Temperature range
  Ambient -20 to +70°C   Probe -50 to +70°C
- Detachable sensing probe
- Max/Min temperature memory
- Dual display
- Alarm settings

Order code   810-080

7 **Digital Clinical Thermometer**

- Compact, accurate, reliable thermometer with LCD display
- Available in Celsius only
- Audible alert when reading complete
- 32°C to 42°C temperature range
- Accurate to within +/- 0.1°C from 34°C to 40°C
- Easy to read LCD display
- Includes plastic storage case and full instructions

Order code   96.21.000

8 **Infrared Ear Thermometer**

- Infrared ear thermometer giving safe, fast and accurate readings
- Wave-guide for on-target temperature measurement
- 1 second measurement
- Simple to use, just press start for immediate reading
- Memory button recalls the last 9 readings taken
- Selectable °C or °F
- Temperature range 34°C to 42.2°C (93.2°F to 108°F)
- Lithium Ion battery gives 5000 readings
- Set includes battery and 20 protective tip covers

Order codes

96.25.000B Infrared ear thermometer with memory and °C/°F display
96.25.100 Protective tip covers (pack 40)

temperature & pressure monitoring

CORTEMP

① CorTemp 2000 Ambulatory Data Recorder

The CorTemp ambulatory data recorder wirelessly picks up the signal from the CorTemp core body temperature sensor, converts the sensor's signal into digital format for display and storage.
Data can be viewed in real-time or downloaded later for analysis in Excel spreadsheet format or through CorTrack data-graphing software. The unit can be worn by the person for continuous monitoring or can be used to take random, manual readings.

Core Body Temperature Sensors

Monitors core body temperature continuously as it travels through the digestive system. While inside the gastrointestinal tract, the internal crystal sensor vibrates at a frequency relative to the temperature of the substance (body) surrounding it, producing a magnetic flux.
The sensor wirelessly transmits the core body temperature signal harmlessly through the body to the CorTemp Ambulatory Data Recorder worn on the outside of the body.

Order codes

HT150001   Data recorder
HT150016   Data recorder with heart rate upgrade
HT150002   Core body temperature sensors

Options

Data Recorder Alarm

Detects high and low temperature and heart rate settings in the CorTemp Data Recorder. The LED illuminates and the unit emits an intermittent audio signal when subject's temperature falls below or rises above set parameters.
Connects to the serial port of the CorTemp Data Recorder.

RF Remote Unit for Data Recorder

Companion to the CorTemp Data Recorder, this RF transceiver, connects into the serial port of the data recorder enabling the recorder to transmit its data in real-time to a remote central monitoring station.
Transmission range -100m.

RF Central Base Station

The RF Central Base Station is capable of receiving signals from up to 20 CorTemp data recorders.
Interfaces with conventional PC platforms.
System includes CorTrack basic graphing/trending software, PC interface cable and power supply.

Digital HR/Temp to Analogue Converter

Converts temperature and heart rate digital signal output from the CorTemp Data Recorder to a continuous analogue signal.
May be used with most data acquisition systems.
Choice of Fahrenheit or Celsius temperature settings.
Output voltage between 0-5 volts.
System includes two BNC connector style cables, 4m data cable and power supply.

RS232 PC Serial Cable

Links the CorTemp Data Recorder to the serial port of a PC.
Length - 1m.

Order codes

HT150008   Data recorder alarm
HT150009   RF remote unit for data recorder
HT150010   RF central base station
HT150013   Digital HR/temp to analogue converter
HT340004   RS232 PC serial cable

①

②

② Digital 5 Channel Thermometer

This versatile, highly accurate instrument is perfect for a variety of field or laboratory applications.

- °C or °F temperature display
- User-defined sequential probe scanning
- User-selectable single probe display
- Temperature display updated 5 times per second
- Min/Max temperature storage and display
- Multi-probe average temperature measurement
- Display hold function freezes displayed data
- Non-volatile storage of instrument setup
- Optional analogue output
- Optional battery pack

Supplied without probes. Please specify probes when ordering

Order codes

5831   5 channel LCD thermometer
0210401   Rectal/Oesophageal adult probe
0210404   Skin/Surface adult probe
0210403   Skin/Surface paediatric probe

From stopwatches through to activity monitors we offer a comprehensive range of all timing and activity monitoring equipment.

FASTIME

1 Fastime 0 Stopwatch

An entry level basic stopwatch.
Good for non critical single event timing and sports games such as football and events where cumulative split-times are required.

Order code   Fast 0

2 Fastime 01 Stopwatch

A basic triple mode single display stopwatch with battery activation function. Available in 7 colours - Black, Blue, Red, Yellow, White, Aqua and Green - please specify when ordering.

Order code   Fast 01

3 Fastime 1 Stopwatch

A triple mode single display stopwatch with extra large (12.4mm) digits in a large, vibrant yellow case.

Order code   Fast 1

4 Fastime 2 Stopwatch

A professional quality triple mode single display stopwatch with extra large (12.4mm) digits.
Good for rugged single event timing and sports games such as football and events where cumulative split-times are required.
Suitable for professional use.

Order code   Fast 2

5 Fastime 3 Stopwatch

Simple to use professional quality, large display (10mm), basic function stopwatch. Ideal for rugged single event timing and sports games such as football.

Order code   Fast 3

6 Fastime 4 Large Display Stopwatch

Simple to use professional quality, large display (10mm), split-time function stopwatch.
Ideal for circuit racing of any kind including karting, bike racing, track and field events.

Order code   Fast 4

7 Fastime 5 Dual Display Stopwatch

Simple to use, professional quality, dual display, 8 memory, split-time function stopwatch.
Ideal for limited (8) lap circuit racing of any kind including track and field events, bike racing and training sessions.

Order code   Fast 5

8 Fastime 6 Triple Display Stopwatch

Professional level, multifunction stopwatch with 30 lap memory and triple display.

Order code   Fast 6

(9) **Fastime 7 Triple Display Stopwatch**

Professional level multi-function stopwatch with 100 lap memory and triple display.

Order code   Fast 7

(10) **Fastime 8 Triple Display Stopwatch**

Professional level multi-function stopwatch with 300 lap memory and triple display.

Order code   Fast 8

(11) **Fastime 9 Triple Display Stopwatch**

Professional level multi-function stopwatch with 100 lap memory, stroke rate and triple display.

Order code   Fast 9

(12) **Fastime 10 Triple Display Stopwatch**

The perfect stopwatch for motor sport and circuit racing.

Order codes
Fast 10   Fastime 100 lap memory and fastest lap stopwatch
Fast 799M   Stopwatch holder and clipboard
Fast 799TBH Stopwatch holder

(13) **Fastime 11 Stopwatch**

Multi-function single display stopwatch ideal for use where 1/100th second measurement is not critical.
Jumbo stopwatch with clip, wristband and lanyard.

Order code   Fast 11

(14) **Fastime 14 Stopwatch**

Professional triple display 500 lap memory stopwatch.
Unique data recall mode which enables user to store batches of split-times as segments in memory.

Order code   Fast 14

(15) **Fastime 15 Stopwatch**

A dual display multi-function stopwatch with unique time of day and pre-start functions.
Rally watch with clip, wristband and lanyard.

Order code   Fast 15

(16) **Fastime 19 Stopwatch**

This watch is worn on the fingers and can be operated by the user whilst carrying out an activity or competing.
Water resistant.

Order code   Fast 19

timing and activity measurement

FASTIME

Running Computers

(1) Fastime DB1 Stopwatch

Simple to use basic function stopwatch. Dome button waterproof stopwatch.

Order code   DB1

(2) Fastime DB2 Stopwatch

Simple to use lap and cumulative split-time function stopwatch.

Order code   DB2

(3) Fastime DB3 Triple Display Stopwatch

Multifunction stopwatch with 30 lap memory, 10 memory pacer and triple display.

Order code   DB3

(4) Fastime Euro 2 Dual Display Stopwatch

Simple to use dual display with 8 memory split time function.

Order code   Euro 2

(5) Fastime Euro 3 Triple Display Stopwatch

Multifunction stopwatch with 30 lap memory and triple display.

Order code   Euro 3

(6) Fastime Euro 4 Triple Display Stopwatch

Multifunction stopwatch with 100 lap memory and triple display.

Order Code   Euro 4

(7) C5000 Laboratory Timer

Easy to set up and use table top timer. Extra large 25mm digits. Ideal for games event timing or rally event service timing.

Order code   C5000

(8) Multichron 4 Competitor Stopwatch

A unique multi-display stopwatch, which enables you to time up to four competitors simultaneously.

Order codes
AIM1Y   Four competitor stopwatch - Yellow
AIM1B   Four competitor stopwatch - Black

(9) Seiko Hand Held Stopwatch with Printer

Hand held stopwatch with built-in printer and 300 lap memory.

Order code   S23247J

BROWER

(10) **Brower SpeedTrap I**

This wired timing system allows athletes to sprint up to 45m.
Results instantly available on stopwatch mounted finish beam.
Inexpensive and simple to operate, the system consists of
starting touchpad linked to finish beam and 45m cable and spool.

Includes - beam, tripod, Accusplit clock, cable spool,
starting touchpad and bag.

Order code
BRO-SPEED1 SpeedTrap - wired sprint timing package

Options
BRO-WS1   Extra cable spool - 45m

Spares
BRO-TP3   Replacement tripod 100cm
BRO-ACL5   Replacement Accusplit clock

(11) **Brower SpeedTrap II**

The wireless sprint system is easily portable for use both indoor
and outdoor.
Timer gives freedom of mobility with a range of up to 250m.
Quick set up and easy to use. Stores up to 126 times with up to 8
split interval times per athlete. Individual identification numbers can
also be entered to increase organisation. Times can be reviewed
and the memory stored even when the unit is turned off.

Includes - coach monitor, start unit with touchpad and microphone,
beam set, 2 x 100cm tripods, 1 x 10cm tripod, 3 x antenna and
carry bag.

Order code   BRO-3265A

Brower SpeedTrap II Options

Beam Set
Add up to 8 intermediate beams to the wireless timing system
to record split interval and acceleration times. The intermediate
beams are supplied with antenna and tripods.

Track Display Unit
A great addition to the wireless sprint system.
The display can be easily set up at the end of the course so that
athletes can have instant feedback on their results.
It has a range of 250m with 10cm high digits which can
be seen from a distance of over 30m.

USB Interface
The USB Interface enables times from the monitor to be
downloaded to a PC.
Times can be printed out or imported into a spreadsheet
programme for further manipulation.

Options

BRO-3264A	Beam set (8 max)
BRO- T08	Track display unit
BRO- TS3	USB Interface
BRO- TP1	Large touchpad (60 x 15cm)
BRO- HP82240B	IR Printer

Spares

BRO-TP2	Replacement touchpad
BRO-TP3	Replacement tripod 100cm
BRO-TP4	Replacement tripod 10cm
BRO- CML5	Coach monitor
BRO-TS1	Replacement antenna
BRO-TS4	Replacement carry bag

System Options

Intermediate Beam

Track Display Unit

USB Interface

timing and activity measurement

CRANLEA

1 Multi-Choice Reaction Timer

A portable, simple to operate, battery powered, reaction timer that features a hand held unit with LCD and 1/100th second timer.
Response unit has four different lights - Red, Blue, Green and White, buzzer and five separate response button switches.

Order code   CRA-MCR

2 Digital Metronome DM11

Slim pocket size design with LCD display and 30 - 250 beats per minute.

Order code   DM11

Digital Metronome DM70

With adjustable volume, clear sound, variable beat, rhythm and 12 reference tones.

NOT ILLUSTRATED

Order code   DM70

3 T130 Chrome Mechanical Hand Held Tally Counter

Metal hand held tally counter, counts up to 9,999.

Order code   T130

FASTIME

4 Fastime Step Counter

Simple to use basic step counter with up to 99,999 steps.

Order code   Fast Step1

5 Fastime Pedometer

Simple to use basic pedometer with option to show distance covered in miles or kilometers.
Includes - step counter with up to 99,999 steps displayed and calorie burner.

Order code   Fast Ped1

CALTRAC

(6) **Caltrac Calorie Counter**

Sophisticated accelerometer for determining calorie expenditure.
Works equally well during sleep, rest and light/intensive exercise.
Ideal for research work or personal monitoring.
Supplied complete with full user instructions and video.

Order codes

Caltrac	Calorie counter with manuals and video
Calbelt	Caltrac belt and pouch
Calpouch	Caltrac pouch
Calclip2	Caltrac belt clip - new style

(6)

YAMAX

(7) **Yamax Digi-Walker Classic**

Counts steps up to 99,999 whilst walking or jogging.

Order code   SW-200

(8) **Yamax Digi-Timekeeper**

Counts steps up to 99,999 whilst walking or jogging
Calculates distance walked or jogged.
Stop-watch from 1 second to 10 hours and displays time of day.
Set average stride length in 1cm increments.

Order code   SW-650

(9) **Yamax Digi-Walker Professional**

Counts steps up to 99,999 whilst walking or jogging.
Calculates distance walked or jogged.
Calculates calories used from 0.01kcal to 9,999.9kcal.
Set average stride length in 1cm increments.

Order code   SW-700

(7)

(8)

ACTIVPAL

(10) **activPAL Activity Tracking System**

Using proprietary algorithms (Intelligent Activity Classification),
the activPAL classifies individual's free living activity into periods
spent sitting, standing and walking. This information can be
used to estimate daily energy expenditure. Changes in the free
living activity profile can be tracked against taking medication or
treatment regimes.
Worn either discreetly on the thigh using a medical grade
adhesive dressing or incorporated into clothing using a
neoprene cuff.

Order codes

PAL6PRO	ActivPAL tracking system
PAL6USBFP	Single device package with software license and cable
ACTIVPAL1	Software licence (1 licence per 5 ActivPAL units)
ACTIVPAL2	USB interface cable
ACTIVPAL3	Neoprene thigh strap

(9)

(10)

timing and activity measurement

RT3

RT3 Tri-axial Activity Monitor

Easy to use activity monitor and recording device. Designed as a complete activity recording and measurement system for clinical and research applications.
The RT3 is lightweight and worn on the waist. Used with software and docking station displaying performance graphs and activity unit data that can be used to assess and track subjects in ongoing and comparative studies.
Measures activity units, METs and Kcals.

Order codes

RT3   Tri-axial activity monitor
RT3 SYSTEM   Monitor with docking station, cable & software
RT3 INTERFACE   Docking station and cable
RT3 HOLSTER   Safety pouch

TESTING PACKAGES

Cranlea Wingate and Sprint Testing Package

Designed to turn a standard Monark 874E into a powerful sprint testing ergometer.
Simple to fit ergometer interface and cables, additional weights and Windows based software which increases adaptation possibilities of anaerobic tests.
Test times can vary from 5 - 300 seconds with intervals of 5 seconds, but still allows standard Wingate test of 30 seconds to be performed.

Includes - printable reports, easy to perform multiple sprint tests, correction for moment of inertia with accurate results.

Order code   SP6

MultiStage Fitness Test

A reliable and easy to use fitness test used in talent identification programmes worldwide. Schools, clubs, emergency services and armed forces use it to determine fitness levels.
Supplied with instructions and a table explaining results.
Place two markers 20m apart, performers run between markers while the bleep intervals become progressively shorter.

Order codes

AA1CD   Multistage fitness test CD
AA1   Multistage fitness test cassette

Abdominal Curl Conditioning Test

Condition and tone of abdominal muscles is a vital component of fitness within a variety of sports.
This package includes a booklet which describes the function and importance of the abdominal muscles and suggests useful exercises.
A simple field test can be performed to assess the condition of these muscle groups.

Order codes

AA2CD   Abdominal curl conditioning test CD
AA2   Abdominal curl conditioning test cassette

Our philosophy
is to offer
the very best
products available
from the world's
top manufacturers
to the medical
and sports
science market.

To maximise
the potential of
these products
we recommend
that you consider
some of the
specialist training
and calibration
services we offer.

training and calibration

For more information
on training and
calibration call

+44 (0) 121 472 0361

or e-mail
info@cranlea.co.uk

Application Training (on Site)

Many of our products feature extensive operational options. In the fast moving world of high technology and software development our experienced training team offer cost effective solutions for all your staff's needs.

Whether training is required for one person or a group of people, Cranlea have a training package to suit every situation.

For Staff training costs please contact us

Equipment Servicing

We offer a variety of service options including routine, preventative maintenance and fully inclusive extended warranty packages.

For further details on any of these options please contact our Service Team

Equipment Calibration

We understand that a lot of research work is done using cycle ergometers, treadmills and metabolic systems.

Although these products are manufactured to the highest standards they still require periodic checks and calibration.

The equipment required to carry out such tests is often expensive and in most situations not cost effective to purchase outright.

Cranlea's Service department have all the necessary calibration equipment to take care of this for you, leaving you confident that all your research is being conducted with accurate technology.

Ergometer Calibration

Using the latest LODE portable calibrator we offer full calibrations on all models of ergometers, both mechanical and electronic. The calibration can be performed within a range of 30 – 1000 watt.

Treadmill Calibration

Using the latest equipment for the calibration of speed, inclination, distance and heart rate we offer a full calibration service on all treadmills.

Calibration per unit

£150 + expenses + VAT

Calibration of 3 or more units

£100 + expenses + VAT per unit

Metabolic Calibration

There are many reasons why stress testing systems can give inaccurate measurements. Such as blocked sample lines, faulty gas analysers, faulty volume transducers etc.

Our new dynamic Metabolic Calibration system can precisely test your system at varying ventilation and flow rates, together with precise values of VO2, VCO2 and respiratory exchange ratio.

Calibration per unit

£200 + expenses + VAT

All of the above Ergometer and Metabolic Calibrations include a FULL Calibration Certificate.

For those of you
who know just what
you are looking for
this index provides
quick access to all
Cranlea products.

Even for those
of you who are
just flicking it is
a usefull tool for
seeing our full
range at a glance.
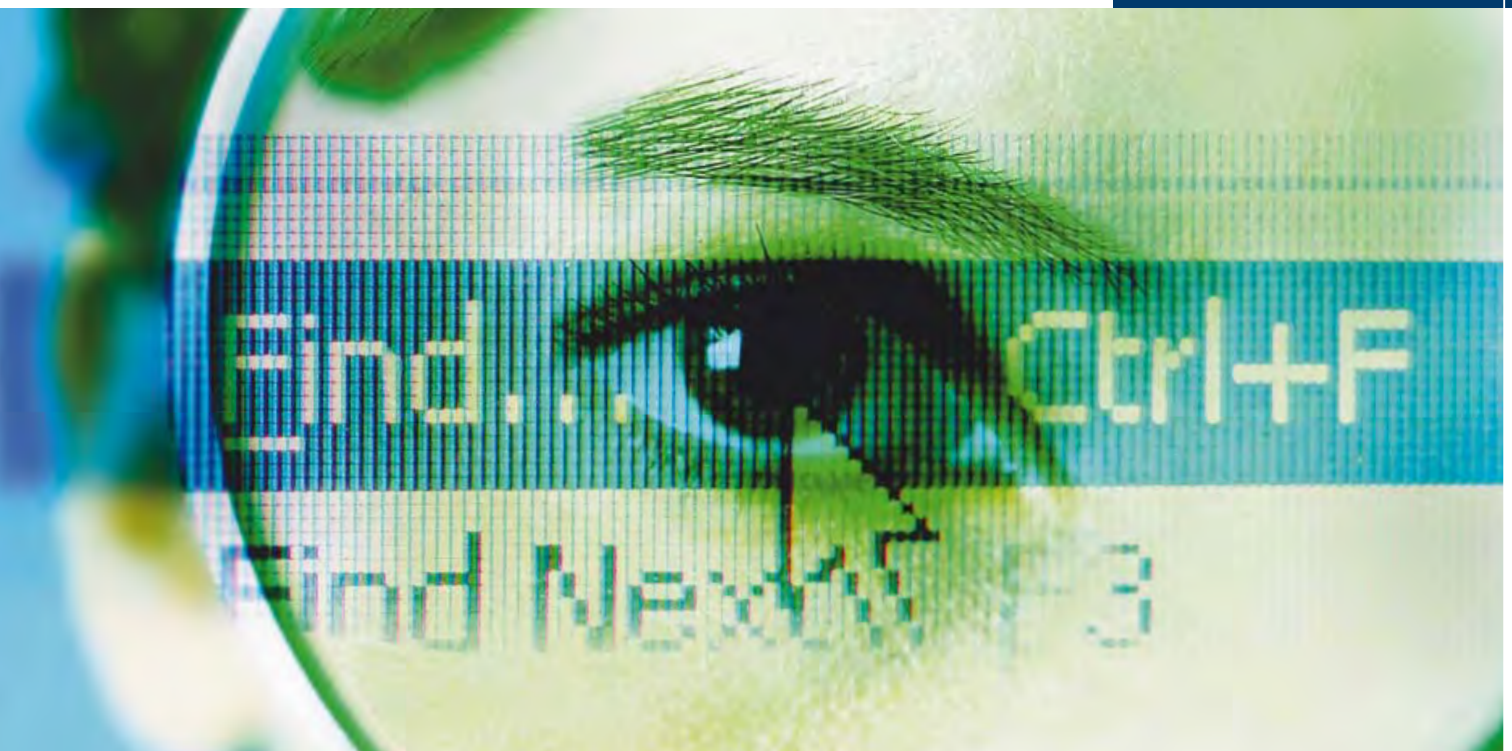
in-depth index

For further information
or for products you
can't find please call
our sales team on

+44 (0) 121 472 0361

or e-mail
info@cranlea.co.uk

For anything you want but can't find here please call our sales team for more information on 0121 472 0361.

in - depth index

Notes

Sales

All sales are subject to these terms and conditions and no other shall apply.

Prices

All prices are subject to alteration without prior notice.

Goods will be invoiced at the price ruling at the time of despatch.

Quotations will be valid for a period of thirty days unless otherwise stated.

VAT

All prices exclude VAT, which is chargeable at the prevailing rate at the time of order.

Carriage

Carriage and packing charges will be payable on all orders unless otherwise agreed.

Product Specification

Details are correct at the time of going to print and may be altered without notice in accordance with manufacturer's specifications.

Title of goods

All goods remain the property of Cranlea and Company until such time that payment as per the invoice has been made in full.

Account Payment Terms

Unless otherwise agreed, the terms of payment for goods shall be net monthly account, due and payable not later than the twentieth day of the month following the date of invoice.

Credit Card Payment

Payment by credit card for goods exceeding the value of £500.00 will be subject to a 5% surcharge on the total order.

Insurance and Risk

Upon delivery, the risk inherent in the goods shall pass to the customer. Cranlea and Company accept no liability for misuse or incorrect use of goods.

Claims

All goods should be inspected for damage and shortage upon delivery and any claim for such must be reported within three days of receipt.

Cranlea and Company reserve the right to inspect and investigate the complaint before any acceptance of liability is made.

Warranty

Cranlea guarantees to replace or repair any equipment that is faulty due to manufacturers defects for a period of twelve months from the date of invoice. No liability will be accepted for misuse or incorrect use of goods.

Return of Goods

No goods will be accepted for credit without prior agreement.

Goods incorrectly ordered may be subject to a handling and carriage charge.

got the measure

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