EXTENDING LIMITS WITH SPIROERGOMETRY

No matter what motivates and drives your test persons, push performance limits with our spiroergometry solutions.

Enhance our powerful spiroergometry systems MetaLyzer® 3B and MetaMax® 3B with appropriate solutions and be perfectly prepared and equipped for all applications in performance diagnostics. Ranging from the CORTEX CANOPY-Option for the MetaLyzer® 3B for measuring basal and resting metabolic rate via further accessories to the unique Swim Option for the MetaMax® 3B, you will find a broad spectrum of solutions for precise diagnostics on the following pages. Another chapter informs you about the CORTEX utilities and disposables.

Please note that this brochure contains only a part of our offer. For further information, please consult our specialized trading partners or CORTEX directly.
SPIROMETRY KIT

Spirometric examinations with an ergonomic mouthpiece

Expand your diagnosis with spirometric examinations using the practical spirometry kit and our hygienic disposable filters.

- no need to disinfect the volume transducer
- convenient handling
- compatible with MetaLyzer® 3B and MetaMax® 3B
- convenient, simple reordering system for disposable filters
- uncomplicated spirometric solution as a supplement to the spiroergometry

MAIN PRODUCTS AND CONSUMABLES

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Part-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand holder</td>
<td>092-02-100</td>
</tr>
<tr>
<td>MSS Software Option Spirometry-kit incl.</td>
<td>606-01-001</td>
</tr>
<tr>
<td>Software license, hand holder and filter</td>
<td></td>
</tr>
<tr>
<td>MSS Software Option Spirometry-kit incl. hand holder and filter, without license</td>
<td>606-01-010</td>
</tr>
<tr>
<td>2-Safety-Pack II with n-missed mouthpiece, 1 carton à 900 pieces</td>
<td>500-00-019</td>
</tr>
<tr>
<td>Nose clip</td>
<td>500-00-021</td>
</tr>
<tr>
<td>Software license MSS Spirometry</td>
<td>723-09-028</td>
</tr>
</tbody>
</table>
The Test Control Center is ideal for intensive training centers, sports centers and rehabilitation facilities, where a large number of athletes and patients are supposed to be looked after, or where many comparative tests are created within a narrow time window, e.g. during aptitude tests for young cadres.

Your benefits

- intuitive user interface in MetaSoft® Studio
- perform up to 4 tests simultaneously
- one operator can monitor up to four tests
- only 1 computer is necessary
- can be combined with MetaMax® 3B and MetaLyzer® 3B as required

The basic package is your introduction to the Test Control Center (TCC). This includes the software license for MSS Test Control Center, a complete MetaLyzer® 3B package with corresponding accessories and the application software MetaSoft® Studio, including connections, adapters and masks, as well as one BT Smart HR belt for measuring heart rate.

With the TCC extension package you can gradually purchase up to three additional CORTEX spiroergometry devices including the accessories required for the number of test persons.

Each test can be started, monitored and stopped completely independently of the others, so that all test persons can pass their individual test. The software clearly presents all intuitively utilizable controls for the four tests.
The spiroergometry solution for swimming*

Benefit from the performance diagnostics through spiroergometry also in swimming. With the specially developed Swim Option for MetaMax® 3B, CORTEX enables exact performance physiological examinations even in water.

- suitable for a flow channel, pool and open water
- ergonomically designed special snorkels for freestyle and backstroke swimming with an integrated saliva suction device and splash-water protection
- integrated heart rate module with 5 kHz technology under water and Bluetooth® communication over water
- waterproof, shockproof transport case
- 12-hour operating time using battery option

**Note:** use only with the MetaMax® 3B (R2)

---

**THE SYSTEM CONTAINS ET AL.**

- Carrying case
- Retrieval device, portable tube/cable holder
- Battery option for MetaMax® 3B
- Sample-Flow-Dryer, special sample line and dry granules
- CORTEX-HR module for swimming, wireless charger
- BT Smart HR belt
- Freestyle and backstroke snorkels with splash-water protection
- Volume transducer, disposable turbines, nose clips

**Note:** detailed information can be found in our brochure MetaMax® 3B

---

**MAIN PRODUCTS AND CONSUMABLES**

<table>
<thead>
<tr>
<th>CORTEX Swim Option</th>
<th>PART-NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry granules</td>
<td>010-01-023</td>
</tr>
<tr>
<td>Hydrophobic filter for special sample line</td>
<td>000-15-161</td>
</tr>
<tr>
<td>Special sample line (Tube in Tube), 3 m</td>
<td>632-01-080</td>
</tr>
<tr>
<td>Freestyle/backstroke snorkel</td>
<td>632-16-004</td>
</tr>
<tr>
<td>Backstroke snorkel</td>
<td>632-16-005</td>
</tr>
<tr>
<td>Disposable turbines (1 carton)</td>
<td>001-35-510</td>
</tr>
<tr>
<td>Sample-Flow-Dryer</td>
<td>132-01-082</td>
</tr>
<tr>
<td>CORTEX-HR module used for swimming</td>
<td>632-20-025</td>
</tr>
<tr>
<td>MetaMax® 3B</td>
<td>**</td>
</tr>
</tbody>
</table>

---

**SWIM OPTION FOR METAMAX® 3B**

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**PROFESSIONAL PERFORMANCE DIAGNOSIS FOR SWIMMING**
**THE NEW FREEDOM IN MEASURING THE BASAL AND RESTING METABOLIC RATE**

**THE SYSTEM CONTAINS ET AL.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Part-Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic unit</td>
<td></td>
</tr>
<tr>
<td>Hood with veil</td>
<td></td>
</tr>
<tr>
<td>Tube</td>
<td></td>
</tr>
<tr>
<td>Bacterial- and viralfilter disposable (Pulmosafe)</td>
<td>636-01-250</td>
</tr>
</tbody>
</table>

**MAIN PRODUCTS AND CONSUMABLES**

<table>
<thead>
<tr>
<th>Product</th>
<th>Part-Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORTEX CANOPY option (total package)</td>
<td>636-01-201</td>
</tr>
<tr>
<td>CANOPY-hood</td>
<td>636-01-001</td>
</tr>
<tr>
<td>CANOPY-veil for hood</td>
<td>636-01-015</td>
</tr>
<tr>
<td>CANOPY® tube</td>
<td>636-01-021</td>
</tr>
<tr>
<td>Pulmosafe bacterial &amp; viralfilter</td>
<td>500-00-019</td>
</tr>
<tr>
<td>MetaLyzer® 3B</td>
<td>**</td>
</tr>
</tbody>
</table>

**Note:** Use only with the MetaLyzer® 3B (R3)

**Note:** Detailed information can be found in our brochure MetaLyzer® 3B

The extension for measuring the basal and resting metabolic rate

The CORTEX CANOPY-Option® for MetaLyzer® 3B makes it possible to measure the basal metabolic rate and the resting metabolic rate without the test persons being affected by the mask.

- reliable measurement according to the gold standard
- particularly suitable for long measurements (without a mask)
- easy to clean and to disinfect
- fully automatic control of the hood ventilation
- high patient safety due to the automatic alarm function
The first disposable turbine worldwide for spiroergometry

The singly packaged CORTEX disposable turbines in the practical dispenser box saves you the trouble of cleaning, disinfecting and calibrating a conventional turbine. This will considerably reduce the amount of work you do between two measuring sessions, and all this takes place under the best possible hygienic conditions.

- no cleaning and disinfection necessary
- perfect hygiene
- simple handling - easy to change
- no calibration necessary
- starting from 100 pieces in a convenient dispenser box
- suitable for both athletes and patients

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak flow</td>
<td>up to 14 l/s</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 3 % or 50 ml (whichever is the greater)</td>
</tr>
<tr>
<td>Inside diameter</td>
<td>30 mm</td>
</tr>
</tbody>
</table>

MAIN PRODUCTS AND CONSUMABLES

<table>
<thead>
<tr>
<th>Product Description</th>
<th>PART-NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORTEX disposable turbine</td>
<td>003-15-000</td>
</tr>
<tr>
<td>Mask adapter for CORTEX flow sensor with disposable turbine</td>
<td>009-00-015</td>
</tr>
<tr>
<td>Electronic for volume transducer and disposable turbine MetaLyzer® 3B</td>
<td>234-01-021</td>
</tr>
<tr>
<td>Electronic for volume transducer MetaMax® 3B</td>
<td>136-01-025</td>
</tr>
</tbody>
</table>

* Note: bulk prices for 3000 or 5000 turbines
The Service Package for high investment and planning security

The Service Package contains a stock of consumables and accessories that are meant to enable one to work as independently as possible during the first years. The warranty extension of 3 years* which is also included in the package, gives you additional planning and cost security for your projects and studies. In addition, the operating costs are significantly reduced by the package.

* Note: this can further be extended as required, see warranty extension

Performance Package MetaLyzer® 3B

The MetaLyzer® 3B Performance Package already includes the most commonly used hardware and software options in sports and preventative medicine. In addition, the package contains one calibration kit, one mask extension set and a larger stock of consumables.

Performance Package MetaMax® 3B

This package includes products contained in the Performance Package MetaLyzer® 3B as well as other accessories specific to the MetaMax® 3B, such as a GPS receiver, back carrying system and a stationary kit for the optimal use of the MetaMax® 3B also in the laboratory with a 2-meter long sample line and a power supply unit.

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**PACKAGE** | **META Lyzer® 3B** | **META Max® 3B**
--- | --- | ---
Service Package | 236-06-905 | 136-06-905
Performance Package | 236-01-500 | 136-05-500
CORTEX BIKE M

The all-rounder among the ergometers

With its simple operating concept, low boarding height and electrically adjustable seat, the CORTEX Bike M is the ideal ergometer for daily use in clinics, hospitals and training facilities.

- open, low entry
- continuous, electrical seat height adjustment
- patient weight up to 200 kg
- high stability
- LCD display with remote control, ergometry and manual operation
- large workload range (6-1000 Watts)
- optional blood pressure measurement and/or SpO₂

MAIN PRODUCTS AND CONSUMABLES

CORTEX Bike M
Automatic blood pressure measurement
Oxygen saturation measurement
Triathlon handlebar
Horizontal saddle adjustment
Quick release skewers without saddle

PART-NO.
610-01-040
610-05-051
610-05-050
610-00-011
610-00-012
610-00-097

CORTEX WARRANTY EXTENSION

We provide a 2-year warranty on every CORTEX system.* With the CORTEX warranty extension, you can renew this time frame as you wish and without limitation.

CORTEX offers you attractive guarantee packages for the spirometry systems MetaLyzer® 3B (R3) and MetaMax® 3B (R2), graded according to the scope and term. The protection covers the free repair and troubleshooting of hardware and software as well as regular free software updates.

Take advantage of longer terms
Choose long terms as required and profit from an attractive price graduation.

Your benefits
- 100 % warranty directly from the manufacturer
- individual terms
- particularly attractive conditions for longer terms
- effective protection from unforeseeable repair costs
- free return of your device after repair

* Note: in connection with the service package of 3 years

TERM METAMAX® 3B METALYZER® 3B
1 additional year 690-01-020 690-01-010
2 additional years 690-01-021 690-01-011
3 additional years 690-01-022 690-01-012
SPIROERGOMETRY AND MORE

The MetaLyzer® 3B and the MetaMax® 3B provide a very detailed picture of the cardiopulmonary efficiency.

We also offer a variety of solutions for heart rate, electrocardiography and blood pressure diagnosis to provide a broader focus. A new addition is the non-compliance-based and non-invasive cardiac output measurement.

Here you can find a small selection of suitable devices that are easily compatible with our systems. In addition, our MetaSoft® Studio application software provides a large number of interfaces for measuring devices of other suppliers. Please contact us for a list of all deliverable or compatible manufacturers and models.

PHYSIOFLOW® ENDURO

Non-invasive measurement of cardiac output

The PhysioFlow® Enduro is a high-resolution impedance-cardiography device. Use this device to continuously measure cardiac output, stroke volume and ejection fraction non-invasively, non-compliance-based and without influencing the spiroergometry.

- non-invasive determination of the cardiac output
- objective findings independent of patient cooperation at rest and under load
- portable, lightweight system
- accurate assessment of the haemodynamic condition
- measurement on treadmill and ergometer

<table>
<thead>
<tr>
<th>MAIN PRODUCTS AND CONSUMABLES</th>
<th>PART-NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhysioFlow® unit</td>
<td>681-01-100</td>
</tr>
<tr>
<td>Sensor kits for PhysioFlow® Enduro, 200 pieces**</td>
<td>681-05-001</td>
</tr>
<tr>
<td>Patient cable for PhysioFlow® Enduro</td>
<td>681-05-010</td>
</tr>
<tr>
<td>Bluetooth® antenna for PhysioFlow® Enduro</td>
<td>681-05-011</td>
</tr>
<tr>
<td>Pouch for PhysioFlow® Enduro</td>
<td>681-05-012</td>
</tr>
</tbody>
</table>

* Note: Please use only original electrodes, otherwise we shall not be able to guarantee reliable results.

** Note: Sensor kits are available in different packaging units. Please inquire from us.
Heart rate measurement

We recommend the use of a convenient chest belt for monitoring the heart rate. The heart rate is transmitted automatically to the MetaMax® 3B or MetaLyzer® 3B by means of a stable and energy efficient Bluetooth® transmission.

- Bluetooth® Smart-technology and encrypted 5 kHz-signal transmission
- comprehensive connectivity to physical fitness apps and diagnostics devices
- comfortable grip by means of an elastic belt, soft materials and secure locking system
- integration to the spiroergometry software

1- or 3-channel ECG

Using the 1- or 3-channel ECG custo guard, we offer mobile electrocardiography measurement in the practical sports belt.

- energy-saving wireless transmission to MetaMax® 3B or MetaLyzer® 3B
- simultaneous display of spiroergometry and ECG in MetaSoft® Studio
- light weight and reliable grip, even with extreme physical activity
- waterproof

MAIN PRODUCTS PART-NO.
BT Smart HR belt 840-05-030

BT SMART HR BELT

CUSTO GUARD

Resting / Stress Test ECG

An improved pacemaker detection, the new custo true wave® filters, a sampling rate of up to 32 kHz and the high functionality transform the custo cardio 400 into a 12-channel ECG of the latest generation.

- a sampling rate of up to 32 kHz
- data transmission via USB and Bluetooth®
- defibrillation protection for dielectric strength of 5000 V
- suction capacity of 6 steps, 0 – 280 mbar
- electrode check with automatic indication of quality

MAIN PRODUCTS PART-NO.
custo cardio 400 350-01-025
Software option MSS meta control 3000 721-09-023

Note: Further accessories like batteries, electrodes, suction unit etc., available on request.

CUSTO CARDIO 400

Mobile 12-channel ECG

The mobile 12-channel resting/stress test ECG has integrated LEDs which give information about the signal quality.

- Sampling rate up to 32 kHz for higher resolution and improved pacemaker detection
- start/stop button for ECG recording
- battery runtime of 10 hours

MAIN PRODUCTS PART-NO.
custo cardio 300 BT accu - ERG® 350-01-076
CUSTO CARDIO 300

Note:
* including short patient cable

Software option MSS meta control 3000 721-09-013

Note:
• including short patient cable
Determine oxygen repletion

The Nonin® pulse oximeter WristOx2® Model 3150 delivers very accurate measurements for all sorts of patient groups and attitudes. It makes it possible to carry out cardiological supervision of out-patients, wireless remote monitoring and overnight feasible studies, both in the hospital and in a private setting.

- a well-thought-out, intuitive operating concept
- Bluetooth® 2.0 technology with a range of up to 100 m
- measuring technology for use in clinical studies, among others
- high skin compatibility according to the guidelines (RoHS)
- extremely robust technology for intensive, long-lasting use in clinics and private households

**MAIN PRODUCT**

<table>
<thead>
<tr>
<th>Nonin® Pulse Oximeter</th>
<th>PART-NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>671-00-011</td>
<td></td>
</tr>
</tbody>
</table>

Automatic blood pressure measurement

The Tango M2 conceived for stress tests on the treadmill and ergometer was specifically developed to filter out signal interferences caused by movements of the test persons.

- display of the systolic reading in less than 15 seconds,
- or of the whole blood pressure reading within 30 seconds
- automatic communication with MetaMax® 3B and MetaLyzer® 3B
- close measuring intervals selectable at time-critical moments or patient emergency situations

**MAIN PRODUCTS**

<table>
<thead>
<tr>
<th>Suntech® Tango M2</th>
<th>PART-NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>420-01-001</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>QRS-Trigger-Software custo med license</th>
<th>PART-NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>720-00-400</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CORTEX-custo Trigger Cable Tango M2</th>
<th>PART-NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>420-01-011</td>
<td></td>
</tr>
</tbody>
</table>

**BLOOD PRESSURE MEASUREMENT OPTION**

You can supplement the blood pressure option* using the ergometer CORTEX Bike M. The delivery includes a standard cuff. Other cuff sizes can be obtained on request.

**MAIN PRODUCT**

<table>
<thead>
<tr>
<th>Automatic blood pressure measurement</th>
<th>PART-NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>697-05-011</td>
<td></td>
</tr>
</tbody>
</table>

* Note: only in conjunction with the CORTEX Bike M
MORE ACCESSORIES

Get a selection of accessories and accessory parts together with their respective order numbers from here.

Some products are available in specific countries and in different sizes, configurations and with different features. Please contact us about our entire product range and all delivery options.

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CALIBRATION KIT PROFESSIONAL

The complete calibration solution

A complete set for the calibration of gas and volume flow sensors of all CORTEX spirometry devices, meant to guarantee optimal functionality of the systems.

- calibration gas syringes, 3 l
- calibration gas bottle
- gas-on-demand valve with adapter
- carrying case, calibration gas bottle holder

MAIN PRODUCTS | PART-NO.
--- | ---
Calibration Kit Professional with carrying case | 010-01-793
Calibration gas bottle | 010-00-005
Calibration syringe 3 l | 010-00-083
Gas-on-demand valve | 010-01-898

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SAMPLE FLOW DRYER

Reducing humidity in the breathing air

The accuracy of measurement is influenced by high humidity such as the one experienced in tropical or cold regions and in applications in swimming. To guarantee accurate measurement also under these conditions, the Sample Flow Dryer dries the inhaled air with the help of dry granules before it is analyzed by the sensors.

MAIN PRODUCTS | PART-NO.
--- | ---
Sample Flow Dryer | 136-01-091
Dry granulate | 010-01-023
Sample line for Sample Flow Dryer, 60 cm | 136-01-026
Special sample line for Swim Option, 3 m | 632-01-080
All devices in a practical trolley

The CORTEX mobile PLUS trolley offers sufficient space for all the testing and computer accessories. Apart from the spirometry device, the option enables the convenient storing of one or two TFT screens, a computer and all other necessary accessories.

- large drawer for small components and consumables with kink protection for cables
- cable conduit integrated into the device column
- calibrating bottle and pump fixed under the drawer
- dual or single monitor mount

REUSABLE VOLUME TURBINE

The reusable alternative to the disposable turbine

Use the volume turbine for stable and reliable measurement results in daily medical care and sports or also under extreme environmental test conditions, both indoors and outdoors.

- conceived for patients, amateur athletes and top athletes
- precise nano-production for stable and reliable test results
- suitable for all common disinfectants
- designed for MetaMax® 3B and MetaLyzer® 3B

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak flow</td>
<td>≤ 20 l/s</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 2%</td>
</tr>
<tr>
<td>Inside diameter</td>
<td>28 mm</td>
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</tbody>
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MAIN PRODUCTS

<table>
<thead>
<tr>
<th>Product Description</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic assembly for MetaMax® 3B (R2)</td>
<td>236-01-007</td>
</tr>
<tr>
<td>Electronic assembly for MetaLyzer® 3B (R3)</td>
<td>236-01-013</td>
</tr>
<tr>
<td>Sieve</td>
<td>003-05-145</td>
</tr>
</tbody>
</table>

BATTERY OPTION FOR METALYZER® 3B

Be independent of the power grid

With the battery option, you are completely self-sufficient from the power supply during operation. Simply leave the device switched on if you would like to transport it from patient to patient without having to restart and recalibrate it every time. The battery option also prevents you from losing measured data in case of power failure, saving you the need to re-prepare the device and patient for testing.

MAIN PRODUCTS

<table>
<thead>
<tr>
<th>Product Description</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MetaMax® 3B with battery option</td>
<td>236-01-720</td>
</tr>
<tr>
<td>Retrofit set for battery option</td>
<td>On request</td>
</tr>
</tbody>
</table>

CORTEX MOBILE PLUS

All devices in a practical trolley

The CORTEX mobile PLUS trolley offers sufficient space for all the testing and computer accessories. Apart from the spirometry device, the option enables the conveniently storing of one or two TFT screens, a computer and all other necessary accessories.

- larger drawer for small components and consumables with kink protection for cables
- cable conduit integrated into the device column
- calibrating bottle and pump fixed under the drawer
- dual or single monitor mount

MAIN PRODUCTS AND CONSUMABLES

<table>
<thead>
<tr>
<th>Product Description</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trolley CORTEX mobile PLUS with 19’’ TFT dual monitor bracket</td>
<td>236-01-015</td>
</tr>
<tr>
<td>Trolley CORTEX mobile PLUS with 19’’ TFT single monitor bracket</td>
<td>236-01-031</td>
</tr>
<tr>
<td>Printer shelf</td>
<td>236-01-030</td>
</tr>
<tr>
<td>Trolley for MetaMax® 3B</td>
<td>236-01-720</td>
</tr>
</tbody>
</table>

* Note: different country-specific versions available
Like no other application software, MetaSoft® Studio combines the complexity of spiroergometric examinations with an extremely intuitive user interface. With its versatile software options, daily test routines can be designed even more comfortably. If the focus is on the fast and reliable analysis of the medical data, the possibilities of using the Wasserman interpretation help, among others, or pre-operative risk assessment are useful options.

Effective training with the help of accurate training areas

The software option CORTEX MSS Performance Assessment identifies optimal training areas using established indicators (among others VT1, VT2, VO2 max, HRmax). On this basis, individualized heart rate training areas can be determined for different load phases and training goals.

- determination of individual heart rate training areas
- individual zone models can be generated
- accurate determination of VT1 and VT2 (AT and RC)
- manual adjustment of thresholds and training zones possible
**MSS EXERCISE SCHEDULER**

Enter concrete training guidelines

The CORTEX MSS Exercise Scheduler transfers the results of the MSS Performance Assessment into a graphic training plan which is organized like a time table. Based on the previously established performance level, defined framework conditions like training goal, load increase, frequency and type of sports activity, training plans are generated in the micro, meso and macro cycle.

- clear training plans in the micro, meso or macro cycle
- reference training plans for numerous sports types, prevention and rehabilitation measures
- motivation through clear training plans
- designing of personal training plans

---

**MSS ENERGY METABOLISM FOR CPET**

Optimize fat and carbohydrate combustion

MSS Energy Metabolism measures the individual energy metabolism, the combustion of fats and carbohydrates with increasing loads, and establishes the optimal heart rate zones for improved economization of the metabolism.

- determination of the increasing energy metabolic rate with increasing load
- determination of fat and carbohydrate combustion
- determination of individual heart rate zones for optimal energy burning and training effects
- motivation of patients through clear evaluations and reporting functions

---

**MSS BASAL AND RESTING METABOLIC RATE**

Determine the exact energy metabolic rate individually

As a reliable basis for a controlled calorie intake, e.g. in the context of a recommended nutritional plan, an accurate and individual determination of the resting or basal metabolic rate is imperative. This option measures the individual energy metabolic rate in a secure, intuitive and valid way.

- determination of the individual basal and resting metabolic rate with a mask or the CANOPY
- separate representation of energy, carbohydrate and fat consumption
- motivation of patients through clear evaluations and reporting functions

---

**MSS SPIROMETRY**

Perform a pulmonary function test

All CORTEX spiroergometry systems can also be used as spirometers. The software option MSS Spirometry offers VC, FVC and MVV tests as well as numerous other measurement, calculation and comparison options.
The MSS Network Extension allows you to increase the number of simultaneous accesses to the network version of MetaSoft® Studio.

The MSS network license basis allows you to install the software on as many workplaces as required with one common database. Up to 3 users can work with the software simultaneously.

The MSS HL7 Interface option provides you with extensive configuration options for connecting to a hospital information system. Please note that special effort can be calculated for setting up the interface.

The MSS network license basis allows you to install the software on as many workplaces as required with one common database. Up to 3 users can work with the software simultaneously.

The MSS HL7 Interface option provides you with extensive configuration options for connecting to a hospital information system. Please note that special effort can be calculated for setting up the interface.

The MSS Pre-operative Risk Assessment license contains a module in which the assessor is guided through a partially automatic interpretation of results which is especially designed with pre-operative risk assessment in mind. Make easier decisions on operative risks from a patient and get more certainty for planned interventions.

The 6-minute-walk-test is an approved method for the evaluation of COPD as well as for therapy control in rehabilitation. With our software option the advantages of spiroergometry are added to the system. Do not only measure the cardiopulmonary reaction of the test persons directly during the 6 minute walk test, but also compare it with the results of classical spiroergometry.

The MSS Network Extension allows you to increase the number of simultaneous accesses to the network version of MetaSoft® Studio.

The MSS network license basis allows you to install the software on as many workplaces as required with one common database. Up to 3 users can work with the software simultaneously.

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The whole spectrum of spiroergometry

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