

**Your
German
Manufacturer**



MS WESTFALIA GmbH
est. 1995



**Made in
Germany**

Functional diagnostics

ECG recorders
Stress test systems
Ergometers



Equipment manufactured by MS Westfalia GmbH:

Cleanrooms • X-Ray equipment • ENT equipment • Anaesthesia and ICU equipment • Medical lamps
Functional diagnostics • Ophthalmology equipment • Microscopes and colposcopes • Lithotripters
Cosmetology and SPA equipment • Physiotherapy equipment • Home photo epilators

Range of medical equipment, supplied by MS Westfalia GmbH

Endoscopy

- Flexible endoscopy
- Rigid endoscopy

Radiology

- Stationary X-ray systems
- Mobile X-ray systems
- Mammography units
- Equipment for digital radiography and photolaboratory

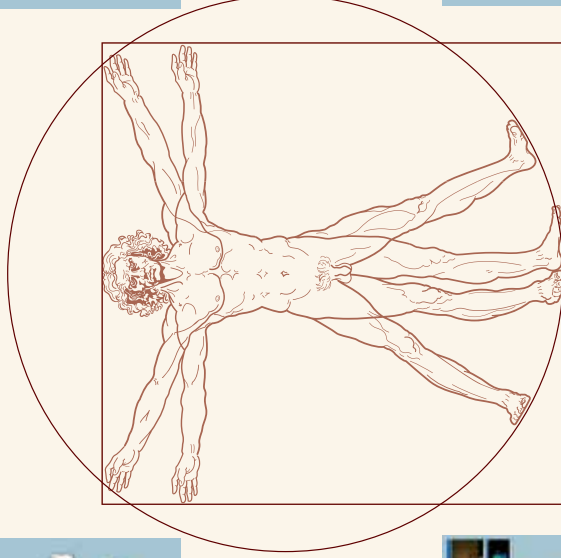
Anaesthesia and ICU

- Intensive care ventilators
- Anaesthesia machines
- Neonatal resuscitators
- Anaesthetic monitors
- Patient monitoring systems
- Fetal monitors
- Pulseoxymetry devices
- Defibrillators

Ophthalmology

- Diagnostic equipment
 - Auto refract/keratometers
 - Computerized tonometers
 - Diagnostic rooms
 - Lensmeters
 - Lens sets with spectacle frames
 - Optical coherence tomographic systems
 - Ophthalmoscopes
 - Perimeters
 - Software
- Chart projectors
- Ophthalmic units
- Ultrasound A-scanners
- Vision testers
- Retinal cameras
- Slit lamps
- Electric elevation tables
- Specular microscopes
- Surgical equipment
 - Laser surgical systems
 - Operating microscopes
 - Operating tables
 - Ultrasound surgical systems

Lithotripters



ENT equipment

- ENT treatment units
- Audiometers and tympanometers
- Diagnostic and operating microscopes

Modular cleanrooms

Cosmetology, Wellness, SPA

- Photo epilators
- Microdermabrasion equipment
- Cosmetology chairs
- Cosmetology modular units
- Body shape remodeling/cellulite treatment
- Thalassootherapy equipment
- SPA treatment units

Rehabilitation and physiotherapy

- Complex rehabilitation equipment
- Physiotherapy equipment

Functional diagnostics

- Ultrasound scanners
- Exercise-testing systems
- ECG/Holter systems
- ECG
- Spirographs
- Invasive cardiology
- Neurophysiology

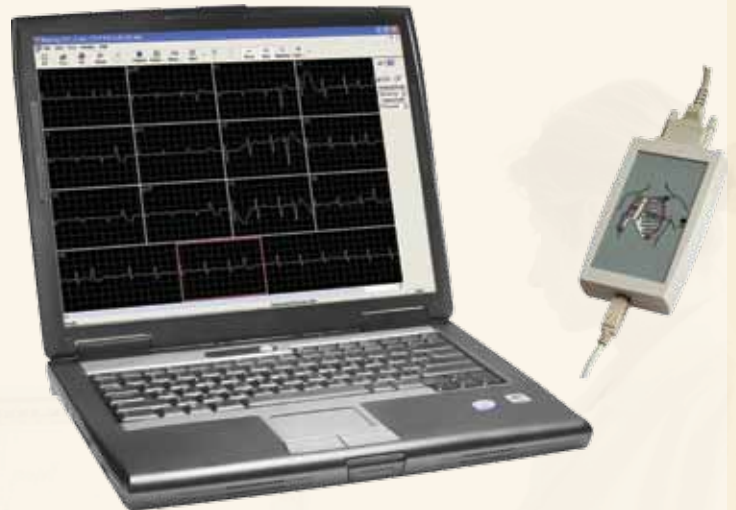
Surgery

- High-frequency coagulators
- Ultrasound dissectors
- Liposuction units
- Cold plasma and argon coagulation
- Cryogenic surgery
- Surgical tables and furniture
- Gynecological, urological and proctological examination chairs
- Aspirators (suction units)
- Medical lamps
- Colposcopes
- Obstetric beds
- Medical beds

LunoCard M

PC based electrocardiograph

- 12 lead continuous monitoring, long term monitoring and storage of up to 12 lead ECG traces. User defined sample resolution.
- Simple and reliable operation.
- Comprehensive measurements.
- Accurate interpretation.
- Economical plain paper printout.
- Networkable.
- Ease of operation via on screen menus and sophisticated Windows software.
- Direct on screen e-mail or fax capability.
- Data export into JPG or XML formats.
- ECG expert analysis: manual setting of J, J+, X spots.



LunoCard Blue

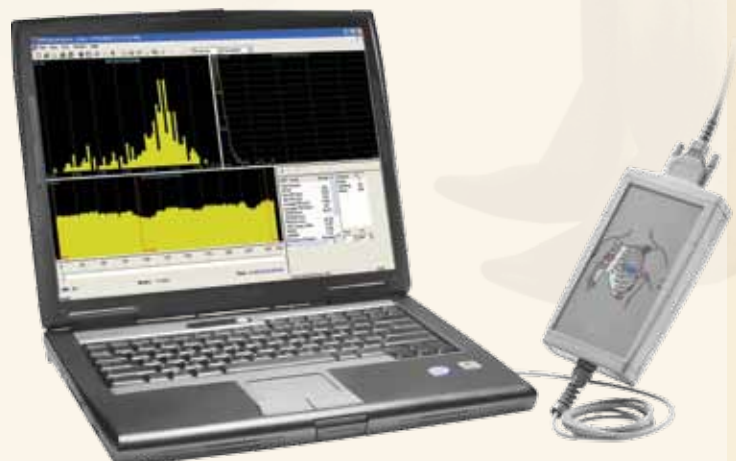
PC based electrocardiograph

- Ideal for hospitals and physician offices.
- 12 lead continuous monitoring, long term monitoring and storage of up to 12 lead ECG traces.
- High resolution ECG processing.
- Export ECG test results into formats: PDF, JPG, TIFF, XML, SCP, plain text, Native RAW data, DICOM.
- Easy interface to EMR (Electronic Medical Records) and HIS (Hospital Information Systems).
- Touch screen.
- Right side and posterior chest leads.
- Free software updates for the life of system.
- Conventional network security controls.
- On-line filtering and automatic baseline correction.
- Enables post processing of saved data.
- ST-measurements.
- Long time battery operation.

LunoCard HR

High resolution PC based electrocardiograph

- Offers 16 bit resolution and very high sampling rate.
- 12 lead continuous monitoring, long term monitoring and storage of up to 12 lead ECG traces.
- Ideal for hospitals, research laboratories, signal averaging and heart rate variability applications.
- Fax or e-mail ECG results directly from the PC system.
- Automatic interpretation.
- Caliper QRS and ECG measurements.
- Comprehensive display and printout.
- Laser or ink printout.
- Physician remarks and signature.
- Network abilities, data sharing.
- Export formats: PDF, JPG, XML and GDT.
- ST-measurements, automatic arrhythmia detection.

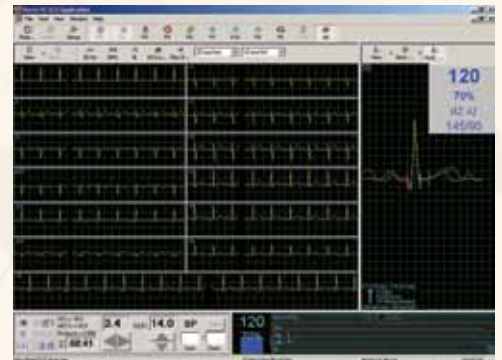


Stress test systems

LunoCard S

PC based stress test system

- LunoCard S PC-based stress test system offers unparalleled flexibility while maintaining user friendliness and simple operation.
- The system meets the specific needs for each user, allowing individuals to control how diagnostic reports are acquired, displayed, measured and printed, according to their particular needs.
- Most standard pre-programmed and user definable testing protocol are offered, accommodating many different treadmills and bicycle ergometers.
- Scroll back during test to see episodes that might have been overseen.
- Full disclosure of entire test. Enables post processing on saved data.
- Very high resolution ECG processing which permits ST-measurements and arrhythmia detection.
- On-line filtering and automated baseline correction which enables stable ECG tracing.
- ECG screen display provides exceptionally clear tracing for visual view and on screen measurements.
- Automatic print during test.
- Can be used with Touch ECG vacuum system.
- Can be used with spirometry module.



LunoCard W

PC based wireless stress test system

- Wireless module for 12 leads resting ECG and stress test ECG monitoring.
- Scroll back during test to see episodes that might have been overseen.
- Full disclosure of entire test. Enables post processing on saved data.
- Very high resolution ECG processing which permits ST-measurements and arrhythmia detection.
- On-line filtering and automated baseline correction which enables stable ECG tracing.
- ECG screen display provides exceptionally clear tracing for visual view and on screen measurements.
- Automatic print during test.
- Compact, low weight – 350 g (including batteries).
- Built-in battery capacity sufficient for 40 hours, possible to use AA batteries.



Touch

ECG vacuum system

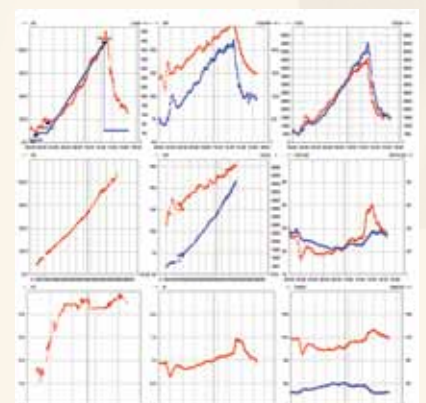
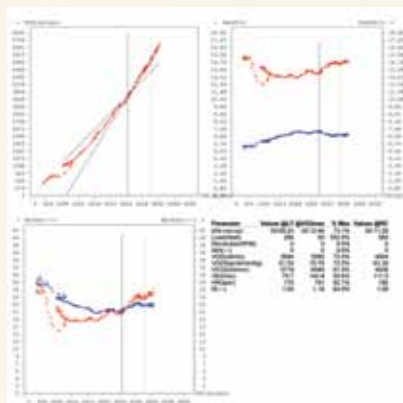
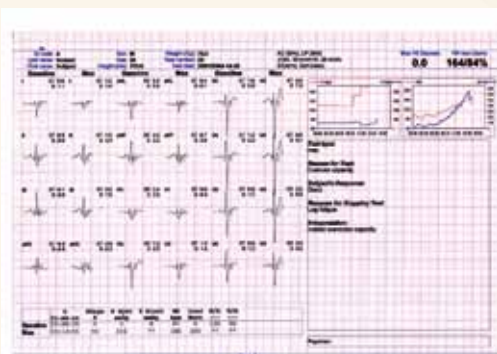
- Simple connection to standard ECG patient cable.
- Vacuum capacity adjustment with remote control.
- Accumulator capacity sufficient for 6 h.
- Integrated defibrillation protection.
- Silicone sucker material, silver chloride electrodes.
- Modular construction.
- Desinfection by wiping or with the use of automating washing unit.
- Wide choice of mounting arms and cable hangers.



LunoSpiro

Cardio Pulmonary Exercise Testing

- Compact metabolic cart for accurate pulmonary gas exchange and 12-lead stress testing ECG.
- Display real-time data and graphs in either pre-defined or user formats.
- Real time O₂ and CO₂ waveforms.
- Exercise flow-volume loops.
- Advanced data elaboration.
- Automatic and manual detection of anaerobic threshold according to the modified V-slope method (Wasserman).
- Access data in a spreadsheet format for advanced data elaboration (filtering, smoothing, etc.).
- Standard and custom exercise protocols design.
- O₂ kinetics feature automatically provides O₂ debt, O₂ deficit and tau values during any constant stage.
- Export test in a single file (ASCII, Excel, file formats).
- E-mail test with MAPI compatible application (outlook, eudora etc.).
- Add user defined parameters and predicted equations with custom based formulas.
- Integrated 12-lead stress testing ECG.
- True diagnostic quality waveforms.
- Continuous 12 lead viewing.
- Current and reference ST analysis profiled for all 12 leads.
- ST depression and slope trends displayed during test.
- Averaged QRS complexes over reference ECG complex.
- Real time laser printout.
- Applications: exercise physiology, education; sports science and human performance labs; clinical exercise testing; nutrition assessment.



Ergometers

Hermes 150 Bicycle ergometer

- Speed independent load.
- Load from 6 to 400 Watt.
- Deep passage.
- Saddle height infinitely variable.
- Integrated stress test programs, user definable.
- Manual mode.
- Digital and analog interface to ECG and PC-ECG.



Hermes 500/Hermes 550 Bicycle ergometers

- Speed independent load 0-999 Watt.
- Automatic blood pressure measurement (optional).
- Oxygen saturation measurement (optional).
- Patient display: load, rpm, speed, time, blood pressure, heart rate.
- Graphic display: 5.7" (load, heart rate).
- Special options, such as the saddle shift function and adjustable pedals allow exercise tests to be performed on children and performance tests on athletes.
- Handle bar and seat height adjustable (Hermes 550).
- Can be used with stress test systems of other manufacturers.



Hermes 550

Hermes 500

Hermes 3000

Reclining / Semi-reclining ergometer

- A high level of safety during ergometry, especially for older patients.
- The couch surface can be adjusted from a horizontal position to a 45° angle.
- Adjustment of the inclination and seat height is done electrically.
- Free programming of exercise protocols, intuitive operation and universal ECG interfaces (digital, analog, remote start) set this reclining ergometer apart.
- Automatic blood pressure measurement (optional).
- Oxygen saturation measurement (optional).
- Patient display: load, rpm, speed, time, blood pressure, heart rate.
- Graphic display: 5.7" (load, heart rate).
- Can be used with stress test systems of other manufacturers.



Hermes 5000

Reclining ergometer for stress echocardiography

- The ideal tilt-recline ergometer for dynamic stress echocardiographic examinations.
- The angle of inclination can be electrically set both horizontally and laterally between 0 and 45°.
- The drop section of the couch facilitates the ultrasound examination.
- Multiple adjustable support elements also provide the patient with stability in the lateral position.
- Free programming of exercise protocols, intuitive operation and universal ECG interfaces set this reclining ergometer apart.
- Automatic blood pressure measurement (optional).
- Oxygen saturation measurement (optional).
- Patient display: load, rpm, speed, time, blood pressure, heart rate.
- Graphic display: 5.7" (load, heart rate).
- Numerous options and a comprehensive set of accessories are also available.
- Can be used with stress test systems of other manufacturers.



MS Westfalia GmbH. About the company

MS Westfalia GmbH (established in 1995, Troisdorf, Germany) is an ISO-certified (ISO-9001, ISO-13485) medical equipment manufacturer, producing a wide range of equipment, including modular cleanrooms, ENT units, X-ray machines, ophthalmology equipment, etc.

MS Westfalia GmbH provides a full range of services:

- Consulting and planning.
- Project design and development.
- Service engineering of the equipment supplied.
- Logistics service.
- Flexible payment terms.



MS Westfalia GmbH headquarters in Troisdorf, Germany

Equipment manufactured by MS Westfalia GmbH



Cleanrooms



X-Ray equipment



ENT equipment



Anaesthesia and ICU equipment



Medical lamps



Functional diagnostics



Ophthalmology equipment



Microscopes and colposcopes



Lithotripters



Cosmetology and SPA-equipment



Physiotherapy equipment



Home photo epilators



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