

**Your
German
Manufacturer**



MS WESTFALIA GmbH
est. 1995

Ergos ENT equipment



**Made in
Germany**

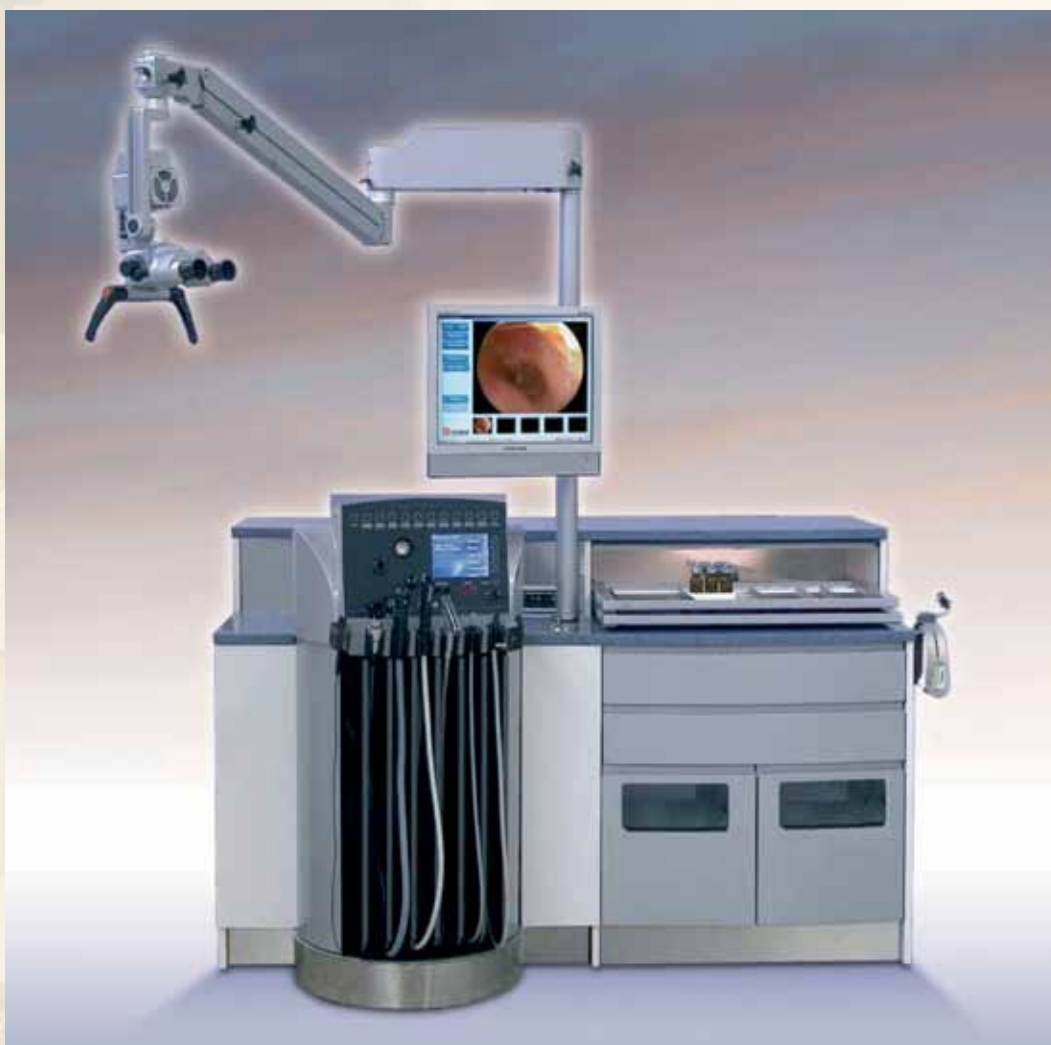


Equipment manufactured by MS Westfalia GmbH:

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

Ergos 50: ENT Treatment Unit

- ENT treatment unit for diagnosis and therapy with integrated microprocessor control console provides work efficiency and comfort for the patient. Multiple options make it possible to meet practically all diagnostic and therapy requirements.
- Flagship model with exclusive and ergonomic modular design.
- Integrated LCD display.
- Additional computer modules can be plugged in.
- Suction, endoscopy and compressed air use counter, total use time counter.
- Fault diagnosis program and service due indicator. Energy save mode.
- The system incorporates advanced electronics with embedded software. Useful information is accessed via the menus on the LCD display.
- State-of-the-art electronics helps to minimize downtime.
- When the ENT Diagnostic Center is connected to the electronics, a choice of diagnostic modules and imaging components can be included in the configuration.



Customizable ENT unit design and planning.



Widest choice of finishes is available for both front panel and worktop. Marian finish (luxury synthetic granite or marble) is used.

Ergos 50: Electronic System

- Integrated microprocessor enables to control all ENT-unit functions and self-test plugged-in hardware.
- LCD display shows the results of ENT unit work functions check, heated water temperature, light bulb change warning and work parameters of the system that the physician uses at a particular moment.



- The system communicates with the electronics in Ergos 50, making it possible to add extra PC-based functions to the configuration, such as a video endoscopy system and a choice of three diagnostic modules. Moreover ear, nose and throat images can be selected from the control console for patient explanations. A remote DVD driver/writer and USB connection are fitted in the treatment unit within easy reach of the user.



Diagnostic images digital visualization

- Monitor can be fixed to a microscope tripod and used to display images (for, example, slide show for the patient) or to a separate rack facing physician's workplace.
- Metal therapy section: 6 handpiece holders with infrared sensors, 10 buttons for external equipment, tidy cable and hose storage.
- ENT treatment unit can be equipped with a video monitor (optional).

Ergos 50: Basic Functions

- **Body frame made of high quality disinfectant resistant materials.**
- **Surface for instrument and medicine storage.**
- **150 W light source for endoscopes (halogen lamp).**
- **Surgical suction system**
 - suction pump with sucking capacity of 32 l/min or 70 l/min with suction intensity indication and control;
 - automatic system of secretion discharge preventing contamination and objectionable odor and plastic secretion receptacle;
 - hose rinsing facility.
- **Insufflation system for insufflation of ear, nose and throat with liquid and powder medical substances:**
 - air pump for a constant supply of compressed air with the speed of 25 l/min with air pistol;
 - 3 bottles of medical substances with atomizers;
 - pressure gauge.
- **Water heating system, irrigation and calorimetric tests:**
 - electronic temperature control: 30, 37 and 44 degrees;
 - the required temperature can be adjusted with ENT unit front panel button, and then it will be shown on LCD display;
 - the head is equipped with water pressure control button;
 - two types of cannulas available for ear irrigation.
- **Quick mirror heating:**
 - immediate mirror heating prevents weeping and provides a clear view.
- **Heated endoscope holders:**
 - prevent weeping of endoscopes, maintain a constant temperature corresponding to the temperature of the human body;
 - 1, 2 or 3 holders can be chosen.

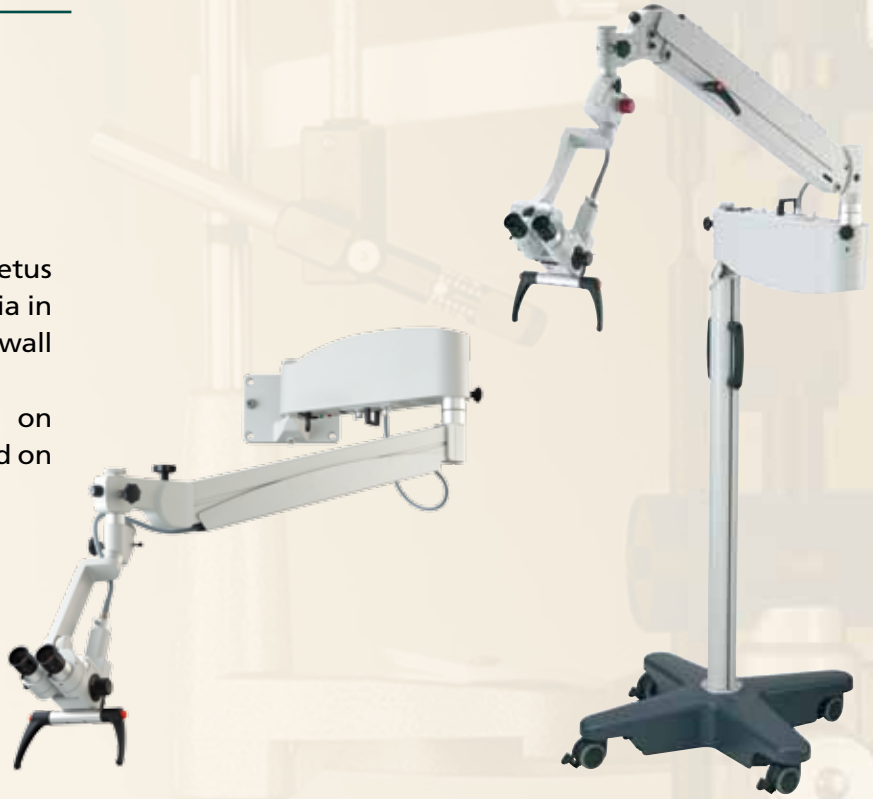


- **Wireless head lamp:**
 - wireless and compact head lamp is convenient for long-term use;
 - does not limit the user's movements;
 - halogen lamp provides sufficient light for the procedures;
 - the lamp is attached to the body frame with the flexible enduring leg;
 - adjustable head band size;
 - rechargeable batteries;
 - full battery charge is sufficient for 2+/-0.5 working hours.
- **Patient chair:**
 - electrical drive unit with hand-held control operates the lifting mechanism;
 - backrest can be adjusted through 160° via gas-spring unit;
 - the chair swivels through 360° and is equipped with a position locking device.

Additional Equipment

Cetus microscope

- Ergos 50 can be equipped with a Cetus microscope manufactured by MS Westfalia in its different versions: on a mobile stand, wall mounted or column.
- The illumination is switched on automatically when the button is activated on ENT unit control console.
- Objective f = 250 mm.
- Binocular tubes.
- Three-stage switch.



Video endoscopy possibilities

- Thanks to video endoscopy system manufactured by Karl Storz patient examination has become as simple as examination in an old routine way with a light reflecting lamp and a rhinoscope.
- ENT cameras and ENT endoscopes provide high quality images displayed on additional monitor and enable to save images on PC.
- Endoscopes with different parameters are available:
 - wide-angle optics: 0°, working length 18 mm, diameter 4 mm;



- wide-angle optics: 30°, working length 18 mm, diameter 4 mm;
- wide-angle optics: 45°, working length 18 mm, diameter 4 mm;
- wide-angle optics: 70°, working length 18 mm, diameter 4 mm;
- wide-angle optics: 90°, working length 18 mm, diameter 4 mm.
- Similar optics is available for 2.7 mm diameter.
- Also a wide choice of flexible laryngoscopes is available.

Rhinomanometry, tympanometry and sinus echography diagnostic modules



- Alongside with the video endoscopy possibilities, three PC based diagnostic modules – rhinomanometry, tympanometry and sinus echography – are available for use with the ENT Diagnostic Center.
- The diagnostic modules start up automatically when the probes are removed from their holders on Ergos 50 treatment unit. The diagnostic software is operated from the treatment unit control console and LCD, practically eliminating the requirement for a mouse and keyboard.

- Wireless head lamp uses 150 W fiber optic light source. The lamp has an integrated fiber optic cable 220 cm long.
- The light source is integrated into ENT treatment unit.
- The small lamp size does not hamper visibility.
- Adjustable head band size, leather coverage in the forehead zone.



- One of the most convenient options is a small steel sink located at ENT unit worktop near suction unit handle.
- The sink enables to rinse the suction unit tip without leaving the workplace.

Incisio Radiosurgical Unit

Field of application

- Tonsil surgery.
- Snore treatment.
- Neurosurgery.

Characteristics

- Minimal bleeding during tissue cut.
- Possibility to make thinnest bloodless upper skin layer cut.
- Instant bleeding termination.
- Minimal scar formation is guaranteed due to insignificant heating.

Operating principle

- High frequency (4 MHz) and low tissue resistance to electromagnetic field enables to focus the energy beam directly on the damaged area.
- Radio-frequency energy is supplied in small portions at 50 Hz frequency. Due to this the tissue can absorb and spread the energy only within the impact area.



ENT Chairs



Patient chair

- Electrical drive unit with hand-held control operates the lifting mechanism.
- The seat ranges from minimum 49.0 cm to maximum 68.0 cm.
- The chair swivels through 360° and it is equipped with a position locking device.
- Backrest can be adjusted through 160° via gas-spring unit.
- It is also equipped with removable swivel armrests.
- Easy to clean (seamless covering).



Standard physician stool

- Height adjustable stool with gas spring.
- The seat ranges from:
 - (1) minimum 53.0 cm to maximum 66.0 cm;
 - (2) minimum 46.0 cm to maximum 61.0 cm;
 - (3) minimum 53.0 cm to maximum 66.0 cm.
- The stool swivels through 360°.
- Adjustable backrest (height and slope angle).
- Backrest diameter: 36 cm.
- Stool five foot base, chrome covering.



Stool and chair covering is available in different colors. Standard colors: blue 134, green 129.

Fully automated patient chair for examination and therapy

- Patient chair with backrest and legrest. Fully electrical lifting and synchronized backrest/legrest drive.
- Movements are controlled by means of a multi-function foot control with a home position switch.
- The seat ranges from minimum 48.0 cm to maximum 90.0 cm.
- The chair can rotate 90° either way and it is equipped with a position locking device.
- Trendelenburg position.
- Removable swivel armrests.
- Easy to clean (seamless covering).



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



MS Westfalia GmbH

Junkersring, 54
D-53844, Troisdorf, Germany
Telephone: +49 (2241) 944-93-3
Telefax: +49 (2241) 944-93-59
E-mail: info@mswestfalia.com

MS Westfalia GmbH
www.mswestfalia.com