

## Ares X-ray equipment

Stationary X-ray systems

C-arms

Mobile X-ray units

Mammography units





**01** Stationary X-ray systems



**02** C-arms



**03** Mobile X-ray units



**04** Mammography units

# Ares X-ray equipment

MS Westfalia. Your German Manufacturer.

MS Westfalia GmbH, a certified German manufacturer (ISO-9001, ISO-13485) of medical equipment with headquarters in Troisdorf and R&D and production lines in Munich.



Headquarters  
Troisdorf | Germany

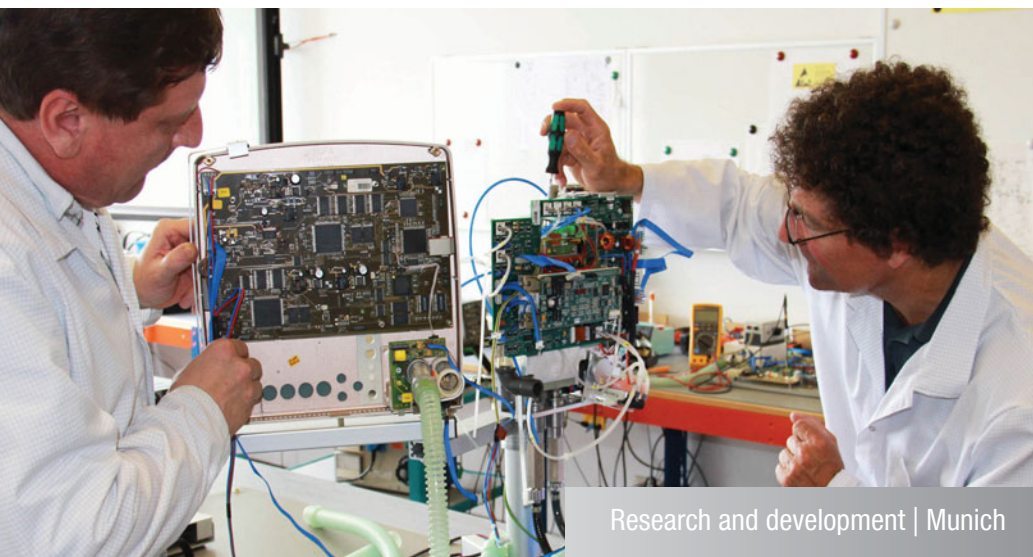
R&D and Production  
Munich | Germany

Office  
Moscow | Russia

Office  
St. Petersburg | Russia



Production lines | Munich



Research and development | Munich

MS Westfalia GmbH, a certified German manufacturer (ISO-9001, ISO-13485) of medical equipment with headquarters in Troisdorf and R&D and production lines in Munich, presents:

- R&D — unique technologies
- Made-in-Germany quality of manufacturing, long-time tests
- High reliability
- Trainings for marketing, sales and technical service
- Complete hospital equipment and multi-modality projects
- Marketing assistance for distributors worldwide
- Technical support

MS Westfalia GmbH, a certified German manufacturer presents:

- X-Ray diagnostic equipment
- Surgical lamps and OP cleanrooms
- Functional diagnostics
- Microscopes and colposcopes
- Lithotripsy
- ENT equipment
- Anaesthesia and ICU equipment
- Ophthalmic equipment
- Physical therapy and rehabilitation
- Beauty and SPA equipment

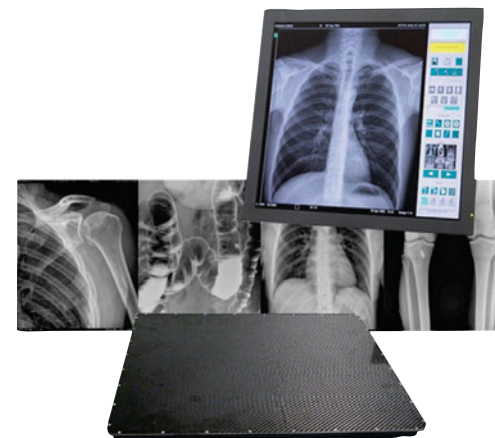
[www.mswestfalia.com](http://www.mswestfalia.com)

## Ares RC DFP

Remote-controlled X-ray system with digital flat panel detector

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- Instant image production and high throughput.
- High quality images (matrix 2880x2880x16 bits, small pixel size — 148 microns).
- The increase of working field in comparison with using traditional formats of 35x43 cm — 50% and 20% compared to 16" I.I.
- Frame rate from 1 to 30 fps.
- Wide range of generators (400 kHz) of 50, 65 or 80 kW.
- DICOM full functionality allows to integrate in hospital info network.
- Essential reduction of radiation dose for all types of examinations.
- Three times more DQE compared with film ISO 400 or fluoroscopic screens.
- Ergonomic design of the table makes it possible to install it in small cabinets.





## Ares RC RAD DFP

### Radiography system with digital flat panel detector

The system is designed for routine diagnostics and combines the latest digital technologies and simplicity of control. Types of examination: radiography and tomography. The system can be completed with a ceiling suspension or a floor based X-ray tube.

- Easy approach of source or receptor to the patient without any obstacle on the floor makes the X-ray examination of traumatized patients on stretchers, patients sat on stools or patients standing much easier.
- Modular construction is easy to install even in small rooms (from 14 m<sup>2</sup>).
- Telescope column made of aluminum is a highly resistant and light-weight construction, thus provides wide range of vertical movements.
- Updated operation panel with a LCD display for indicating the tube position.
- Wide range of generators of 32, 50 or 65 kW.
- New panel design with better handle for great maneuverability and easy positioning.
- User-friendly interface.
- "Maintenance-free" permanent magnet safety brakes for all movements.
- Motorized tube movement and automatic position storage reduce the examination time and make it more precise.
- Optional programming for the stop-motion mode and further image clipping.
- Tabletop system with a built-in digital detector performing table function.
- Types of configuration: with two stationary detectors (35x43 cm, 43x43 cm); with one stationary and one portable detector; with one portable detector.

# Ares RC

## Remote-controlled X-ray system

X-ray system allows for fluoroscopy, radiography and tomography in one multi-functional remote-controlled table. Modular construction: wide choice of tables, generators, digital and analogue imaging systems and X-ray tubes enables to design equipment up to the needs of any clinic.

- “Premium” functionality and quality at “medium” prices.
- Possibility of carrying out all types of routine and special studies with X-ray: radiography, fluoroscopy, tomography, special examinations.
- Wide range of RF generators (400 kHz) of 50, 65 or 80 kW.
- Upgraded remote-controlled tables: focal distance, longitudinal movement and transversal movement are the highest in its rate.
- The tabletop tilting  $+90^{\circ}/-30^{\circ}$  or  $+90^{\circ}/-90^{\circ}$ .
- Capability of zonography and tomography in any table position.
- Digital and analogue imaging systems.
- Numerous variants of upgrade.

### Ares D system advantages:

- 1024x1024x12 bits — digital CCD camera full co-ordination with iris collimator device (previously optional).
- The widest working field among other systems of this type — 13”/16”.
- The highest speed of obtaining the images — up to 30 images per second.
- The frequency in radiographic mode — up to 15 images per second, 1024x1024x12 bits (with previous data up to 12.5).
- Memorization of the examination selections based on the user’s specific preferences (Doctor Preferences).
- Individual programming of a system, full range of image processing programs, angiographic programs. Universal operating of a digital system, a table and a generator (system functions control).
- DICOM 3.0 interface.





## Ares RC M

### Universal X-ray unit

Ares RC M can be used in traumatology, orthopedics, in surgery, etc. It is a compact, relevant by price and reliable unit, which is ideal for primary health care and emergency medicine for all major radiographic studies.

- Functional — allows to examine skull, skeleton, chest, abdomen in any position.
- Easy to install and use, it takes little time for installation and training.
- Compact design — required installation area is 14 m<sup>2</sup>.
- Economic — the specialist can perform more than 90% of possibly required radiographic studies with minimal consumption.
- In conjunction with radiographic table is functionally similar to conventional radiographic system.

### Ares RC M includes:

- Universal stands for wall or floor fastening with vertical slide action.
- A mobile radiographic table with brakes.
- High-frequency X-ray generator for radiography of 32 or 50 kW.
- Control panel conveniently situated on the X-ray tube.
- Auto-calibration.
- Optional connection of an automatic exposure control.
- A set of anatomic programs.
- An X-ray tube with a rotary bifocal anode.

## Ares MR

### Mobile C-arm X-ray unit with digital imaging system

Ares MR X-ray unit with C-arm is developed for multi-functional use: general and urgent surgery, orthopedics, traumatology, endoscopy, in a day care and veterinary practice.

- High quality of obtained images and compact design.
- Image processing program package and user-friendly interface.
- 32/110/330/2700 image processors with two monitors.
- USB-option in all configurations, image file extension: jpeg, tiff, png, dicom.
- Image size: 1024x768, 800x600 and 640x480 pixels.

## Ares MR AFG

### Mobile C-arm X-ray unit with digital imaging system

- System modes: digital fluoroscopy (continuous, pulsed, boosted, one shot); high speed image processing (up to 25 images per second); radiography (digital, film).
- Matrix 1024x1024 pixels, 10 bits.
- Memory of 350 000 images.
- Image frequency 25 images per second.
- 1200 anatomic programs.





## Ares MR DFG

### Mobile C-arm X-ray unit with digital imaging system

System modes: digital fluoroscopy (continuous, pulsed, boosted, one shot); high speed image processing (up to 30 images per second); radiography (digital, film). The unit is developed, first of all, for angiographic examinations, but also can be used for routine studies.

- Digital camera CCD 1kx1k, 12 bits.
- Memory of 350 000 images.
- 5 kW power capacity.
- Image frequency up to 30 images/sec.
- Complete package of angiographic programs.
- 1200 anatomic programs.
- High quality of obtained images and compact design.
- Advanced image processing program package and user-friendly interface.



# Ares MR Angio

## C-arm X-ray system for angiographic studies

Designed for angiography, endovascular studies, as well as traditional surgery, urology, gynecology, orthopedics and traumatology.

- High power of 20 kW.
- Image intensifier of 9" or 13".
- Excellent image quality (digital CCD camera 1kx1k).
- Wide choice of configurations. Outstanding versatility: flexible configurations suitable for all examinations.
- Removable keyboard can be fixed on the Angio table.
- Dual cooling system allows the X-ray unit to remain steady for an indefinite period of time.
- All C-arm movements can be motorized.
- Dual power system: power reserve system allows functioning from any standard wall outlet. Power is stored and released according to necessity.
- Full DICOM package, USB, CD/DVD recorder.
- Remote control.
- Application: vascular surgery, hemodynamic procedures, electrophysiology, endoscopy, neurology, urology.



## Ares MR Cardio

### C-arm X-ray system for cardiological studies

Due to unique technology complex (dual cooling, dual power and motorized C-arm management) Ares MR Cardio is the best solution for interventional cardiology and vascular surgery. Fields of application: hemodynamic studies, electrophysiological studies, angioplasty, stenting.

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- Up to 1000 mA and 100 kW power capacity provides high quality of angiography diagnostics.
- Liquid cooling of X-ray tube (4" graphite rotating anode).
- Image intensifier 9" and 13".
- Ceiling mount of the system and LCD monitors in the operating room.
- Remote control of all system movements.
- Dynamic anti-collision system for C-arm movement in all directions.
- DICOM interface.



## Ares MB

### Mobile X-ray unit

- High-frequency monoblock (40–100 kHz), different power options: 3.5 kW, 4 kW, 6 kW, 30 kW and 32 kW.
- LCD touch screen control panel.
- Multi-language interface.
- 1200 anatomic programs.
- Setting the parameters by 2 and 3 points.
- Synchronization with mobile grid.
- Simple and ergonomic mechanics of a stand.
- Easy to move and position the X-ray tube.
- Possibility of individual configuration.

## Ares MC

### Mobile X-ray unit

- High-frequency monoblock (40–100 kHz), different power options: 3.5 kW, 4 kW, 6 kW, 30 kW and 32 kW.
- LCD touch screen control panel.
- Multi-language interface.
- 1200 anatomic programs.
- Synchronization with mobile grid.
- Simple and ergonomic mechanics of a stand.
- Easy to move and position the X-ray tube.
- Tube stand tilting 180° (+90°/-90°).





## Ares MB Digital

### Digital mobile X-ray unit

- Flat panel detector, active matrix 3052x2540 pixels; pixel dimension 139 microns; resolution 3.6 lp/mm; power range 40–150 kW; cycle time 8/10 seconds; preparation for examination up to 2 seconds; weight 3.9 kg.
- Windows-based digital system.
- Memory for 3000 images.
- Image processing: spatial filters, harmonization, vertical/horizontal image rotation, 90 grade rotation, square electronic collimator, multi-image display, zoom 1–3, brightness/contrast regulating.
- Graphic functions: angles and distance calculation, text overwriting on the image.
- DICOM functions.
- 19" LCD TFT color panel with non-reflective touch screen surface.



## Ares MB Digital Plus

### Digital mobile X-ray unit

- The X-ray unit movement is motorized, its speed may reach up to 5 km/h. Swivel front wheels make it easy to navigate the unit during transportation and bring it to a required position.
- Built-in rechargeable battery eliminates the necessity of searching for a plug socket while screening a patient, thus, saving time and simplifying the work of the personnel. Battery is recharged through a standard 220V plug socket.
- Wide range of rotating angles of a monoblock, a rotating column and a telescopic tube stand makes it easy to set up the tube for any necessary projection.
- Small size of the unit (width less than 65 cm) enables easy transportation of the unit in narrow spaces: corridors and wards.
- Safety key eliminates unauthorized unit transportation or usage, so there is no need for a separate storage room for this unit.
- Built-in anti-collision sensors prevent collision during transportation.
- Integrated work station allows immediate image evaluation, data recording on CD/DVD/USB (flash drive) and sending to PACS or RIS via DICOM. Furthermore, a built-in hard drive allows storing patient data, screening parameters and a large number of images (up to 15,000).



# Gaia

## Analogue mammography unit

X-ray unit for mammographic examination. It is used for screening, targeted images, can be completed with biopsy device. Provides high quality images along with minimal radiation treatment.

- An auxiliary digital display placed frontally on the bottom of the unit shows compression parameters and C-arm angle rotation.
- New smooth compression system provides more comfort to the patient during the examination maintaining high quality of obtained images.
- Biopsy device BYM 3D makes needle-targeting more precise and allows for verification of small new-growths. Automatization of the process significantly reduces diagnostic time.
- C-arm is perfectly designed for any cassette-holder and compression plate.
- Programmable examinations.
- Special calibration software allows an operator to choose different exposure parameters (programmed or fixed), to set personal adjustments for 16 different operators and to easily change the settings.



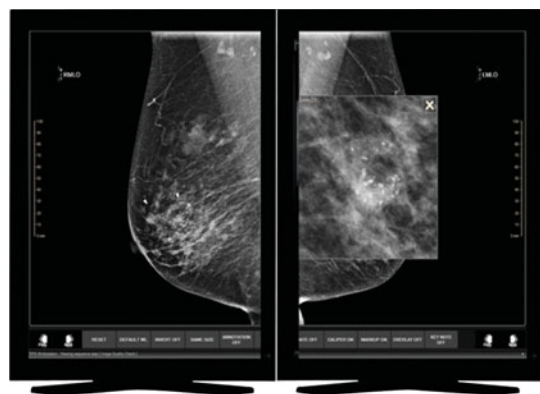
# Gaia Digital

## Digital mammography unit

- Mammography unit with X-ray tube and digital flat detector based on amorphous selenium technology (18x24 cm, 24x30 cm). This enables to produce the highest signal/noise ratio and offers greater efficiency compared to other known technologies.
- Combination of tungsten anode tube and X-ray tube rhodium filtration gives an opportunity to reduce a radiation dose and to get high-quality images of breast regardless of its thickness or consistency.
- Mammography stand can be isocentric (mostly comes with an attachment for stereotactic biopsy) or non-isocentric (without stereotactic equipment).
- Built-in workstation controls exposure parameters, has image viewing programs, graphic functions and DICOM tools.
- A professional workstation for viewing and processing the medical images is optionally available.

### Diagnostic workstation includes:

- LCD color display service system, high resolution 5 MPixel dual headed monitor;
- mammography software;
- DICOM-package that integrates mammography unit to RIS-HIS-PACS interface.





[www.mswestfalia.com](http://www.mswestfalia.com)

Junkersring 54 | 53844  
Troisdorf | Germany  
(+49) 2241 944 933  
[info@mswestfalia.de](mailto:info@mswestfalia.de)

Perchtinger Str. 10 | 81379  
Munich | Germany  
(+49) 89 780 728 77 45  
[info@mswestfalia.de](mailto:info@mswestfalia.de)