MAMMOGRAPHY DEVICES
AND MOBILE CABINETS

MAMMO-RP-AMICO

MAMMO-RPd-AMICO

MOBILE
MAMMOGRAPHY
CABINETS
ROENTGENPROM Company, a subsidiary of the AMICO holding manufactures digital and conventional mammographs, as well as mobile cabinet on the basis of these devices. Working in collaboration with experienced physicians and taking into account the particularities of diagnostics, we have created mammographs complying with the best world standards. When designing our film-type unit Mammo-RP and digital-type Mammo-RPd, we focused on the safety and efficiency of examination, but also kept in mind the comfort of the doctor and the patient.
The unit is equipped with a powerful bifocal X-ray tube and high-frequency power supply. A movable grid improves the image quality not being displayed in the picture, both in a 18x24 cm cassette holder and in a 24x30 cm cassette holder (available on request). If using automatic exposure control, it is possible to set 15 degrees of film blackening density.

The panel at the front of the device allows to control all movements. An automated standard projections unit and a possibility to make adjustments for any small angle makes positioning faster and more precise. Additional adjustment and the procedure of taking the picture is carried out from a remote control panel, made in the form of a touch screen on the x-ray protective screen. The screen will automatically display the installed accessories. A useful function for everyday operation has been implemented that prevents taking a second picture on the same tape and taking a picture without a cassette in the holder. A mobile X-ray protective screen is installed on the necessary side of the machine and allows to allocate the mammograph in any configuration.

Mammo-RP Film mammograph is well established among physicians. It is achieved by its modern design and an ergonomic shape.
Mammo-RPd is a state-of-the-art scanning digital mammograph. When creating this unique device our main efforts were aimed at reducing the radiation exposure and achieving the highest quality of images for accurate diagnosis. As a result, the spatial resolution is at least 10 lp/mm, and the radiation dose is reduced by more than 50% as compared with film-type mammographs.

Mammo-RPd has a modern ergonomic design. Special handles are convenient for the patient and facilitate her positioning. The mammograph support can turn at any angle. Automatic fixing of the C-arm in standard projections and height compensation in the process of its rotation facilitates work for the personnel. All device movements are motorized. Two control panels, two floor pedals and an emergency stop button provide easy operation for the personnel.

A remote control unit is provided on the basis of the laboratory assistant's workplace. This is a full-fledged computer with up-to-date DICOM-compatible software. Using that software a specialist can enter data about the patient, set the image parameters, make demonstrations, perform quality control, digital processing, storage and transmission. The device can be integrated into a medical treatment facility computer network.

We have taken several steps to reduce the radiation dose:

- added a high-quality structured intermediate emitter to the detector, which gives a high quantum registration efficiency (DQE);
- abandoned the grid by using a scanning detector;
- we complemented the above measures with the scanning detector and slit diaphragm synchronization, reducing the radiation dose by more than 50%, as compared with a conventional mammograph.
MAAMMO-RPd

Digital Mammography Units

High image quality is achieved through the following solutions:

- we decreased scattered radiation by a factor of 20, as compared with a conventional mammograph, through the use of a slit diaphragm and its synchronization with a linear detector.
- small pixel size in the detector provides a greater spatial resolution.
- a powerful bifocal X-ray tube with a high frequency power supply provides high-quality emission.

Mammo-RPd is an optimal system for standard types of digital mammography.
When mobile rooms are created every detail must be taken into the account to ensure reliability and efficient operation of the cabinets. Due to our long-term experience in the segment of mobile medical cabinets Rentgenprom JSC ensures the possibility of a mammography examination at any point of the world.
Our company has many years of experience in creating mobile solutions for X-ray diagnosis. Solving the problem of breast examinations in hard-to-reach and remote areas, we have created mobile mammography cabinets, which can be equipped with conventional or digital mammographs. They are supplied on the basis of reliable KAMAZ chassis and equipped with all the necessary items for long-term efficient work away from hospitals. A powerful ventilation and heating system creates comfortable conditions for the staff and patients. An independent water-supply system provides equipment for fresh water filtering. A mini-power station can be optionally installed, making it possible to conduct examinations without electricity connection.

The mobile office treatment room is equipped with a film-type or a digital mammograph, an x-ray protective screen, air heating system. The personnel room has desktops for the physician and the lab assistant: in the film cabinets, they are equipped with a laptop and X-ray view box, in the digital cabinets – with automated workstations (AWS). A mini-refrigerator and an air conditioner are also provided. The film-type office is equipped with a wardrobe and a sofa, and a developing room. The digital cabinet has a medical and an office printer, an image digitizer (optional). Both have a toilet room.
Everything you need for Radiology