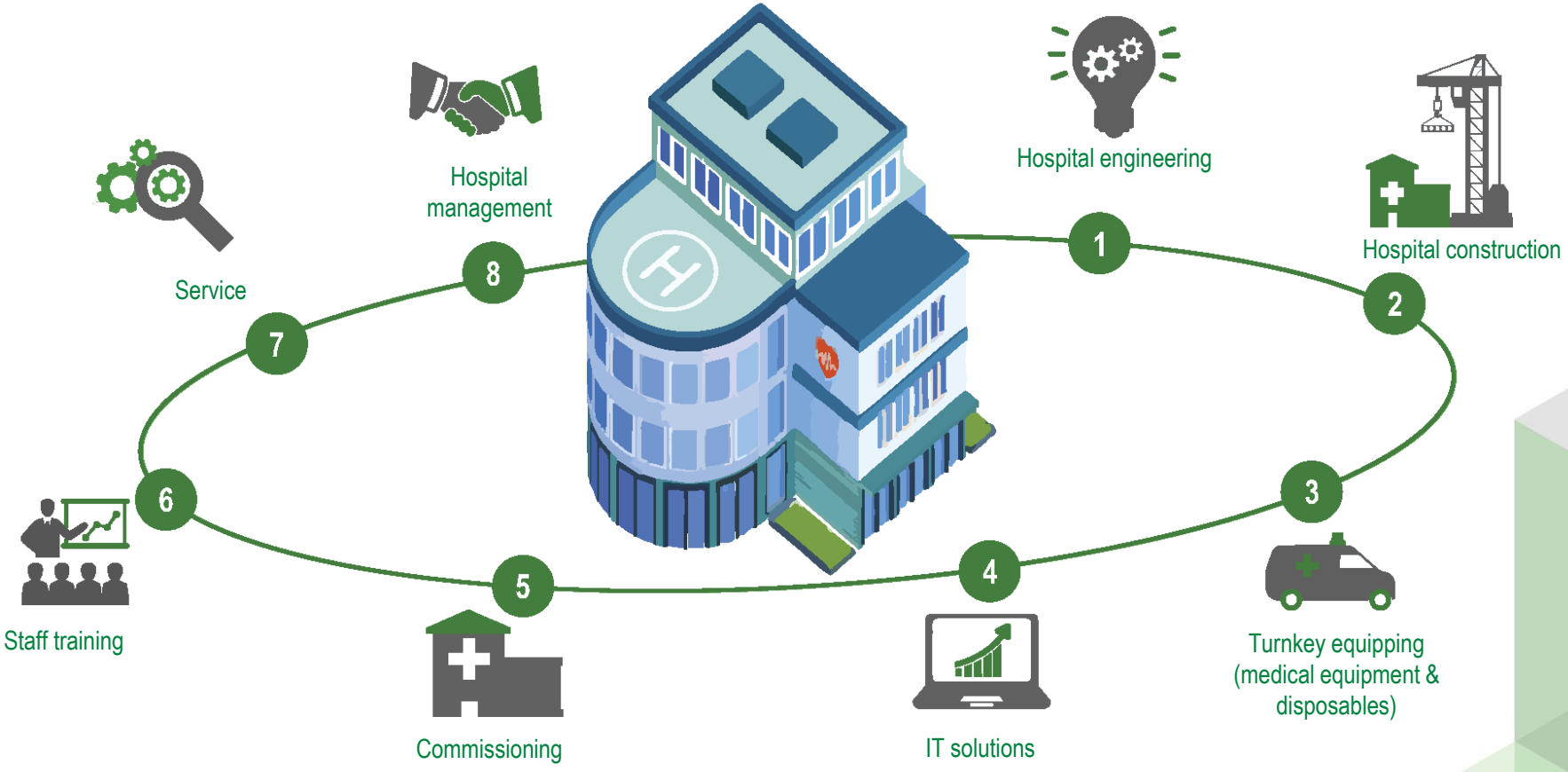
MEDKON

Company MEDKON

Integrated medical solutions

Opportunities for cooperation

«MEDKON». Integrated medical solutions



Key Competences of the Project Team

Expert evaluation of medical project technological process

- Compliance with Construction Rules and Regulations, Sanitary Regulations and Standards, equipage orders etc.
- Expert opinion of medical technologist
- Arrangement of prevention and treatment facility patients flow
- Selection and spotting of equipment

Expert evaluation of technical and functional characteristics of medical equipment

- Equipment selection by quality and performance
- Selection of optimum characteristics and component parts package (analysis and exclusion of clinical options and software packages that are not demanded by the doctors)
- Selection of equipment in accordance with all modern requirements and specificity of prevention and treatment facility
- Selection of medical equipment manufacturers (on our part) for reduction of expenses referred to maintenance service, availability of the whole line of equipment for certain prevention and treatment facility

Expert evaluation of facility premises readiness for delivery, installation and commissioning of equipment

- Scheduled plan of equipment delivery to the facility
- Scheduled plan of equipment installation and commissioning
- Cooperation with construction team

Availability of own maintenance department for post-warranty maintenance of medical equipment

- Reduction of expenses for maintenance support during operational period

Unique integration complex:
from design to the first patient

Our specialization

- Perinatal centers
- Cancer centers
- Nuclear medicine centers
- Beam therapy centers

- Exploring needs of the region
- Development of medical-technical and architectural specifications for design
- Development of a program for design
- Development of project financing program
- Development of project implementation program
- Project execution. Comprehensive control
- Equipage, installation and maintenance of medical equipment
- Personnel training
- Facility commissioning

We offer our clients the highest level of professional competency at each stage of turn-key project execution.

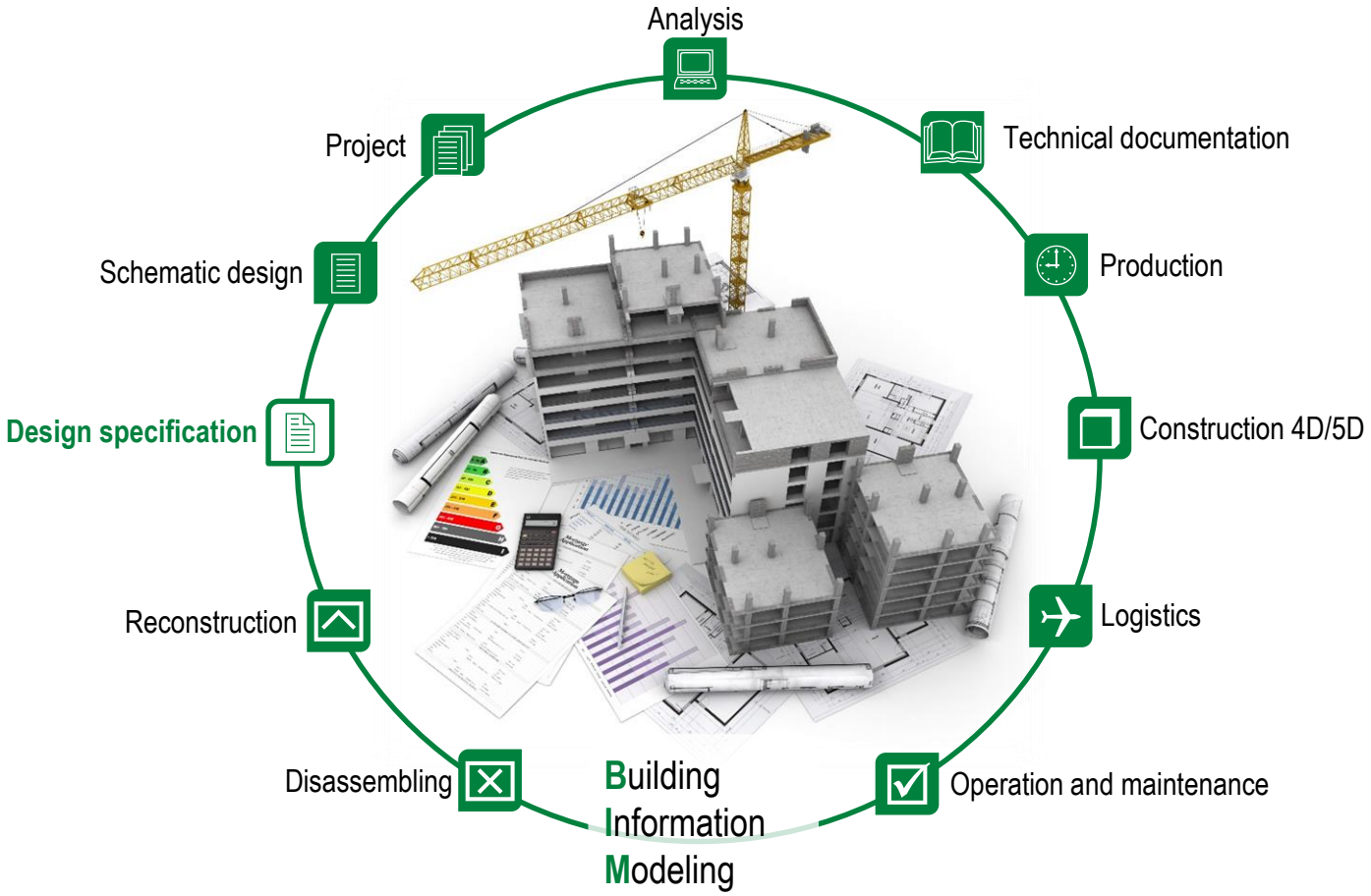
Advantages of projects implementation with MEDKON Company:

- Reduction of projects implementation time.
- Direct contracts for supply of high quality medical devices with the world leading companies of the industry.
- Medical engineering of international standard and proven experience of largest federal projects implementation.
- Own service center intended for clients comprehensive service support .
- Highly qualified staff.
- Transaction with customers without intermediaries.
- MEDKON Company encourages use of international experience in healthcare industry of Russia.
- MEDKON optimizes business processes and logistics.

Opportunities for cooperation

Design

MEDKON Company, the engineering expert, uses a unique technology of Building Information Modeling as a basis for all solutions throughout life cycle of medical object.



Using BIM technologies in medical centers construction is a key to a highly effective functioning which maximally eliminate risks of economic loss while operation.

In hands of a customer **BIM** is a mechanism for

- **Determination** of assessed value of Medical center project;
- **Planning**, cycle control and cost optimization;
- logistic and construction process **optimization** (LEAN construction technologies)
- **Making maximum profit** out of information about Medical center developed in course of designing

Construction of Healthcare Facilities

Creation of the modern hospital

is a complicated well-consolidated multilevel multistage project.

Complex integrator

has all the necessary approvals and licenses for survey and construction works including a particularly dangerous and technically complex objects, including objects with the use of nuclear energy;

provides engineering and design of medical objects of any complexity including.

Coordinated work of all project participants - ensures the reliable operation of the medical facility in future.

Perinatal centers

Radionuclide diagnosis departments

OR

Nuclear therapy departments

Nuclear diagnosis departments

ER & ICU

Turn-key equipage of medical centers and hospital departments

Anesthesiology Intensive care

Radiodiagnosis
Neuronavigation

Ultrasound systems Functional diagnostics

Radiology
Radiotherapy
Nuclear medicine

Endoscopy
Endo-surgery

Laboratory diagnostic

Operating rooms Medical furniture

Sterilization
Disinfection

SIEMENS PHILIPS TRUMPF STORZ MEDICAL STORZ KARL STORZ – ENDOSKOPE ZEISS mindray PENTAX Dräger Söring SCHILLER ATMOS MedizinTechnik COVIDIEN MERIVAARA Hill-Rom HEINEN + LÖWENSTEIN sysmex BIOMÉRIEUX KONICA MINOLTA eurocolumbus RADIOMETER COPENHAGEN italray

Radiology

Provision of high technology equipment for radiation therapy and nuclear medicine to cancer centers

Diagnostics & verification

GE · SIEMENS · PHILIPS

Endoscopic examination
- rigid endoscopy
- flexible endoscopy

Magnetic resonance imaging
- wide aperture
- field strength 1.5 Ts (or 3 Ts)
- gradient coils sets of 64 channels
- velocity of gradient increase 130 T/m/s

Computer tomography
- wide aperture 80 cm
- 256 slices
- X-ray generator 80 kW

Laboratory diagnosis
- histochemistry
- immunochemistry

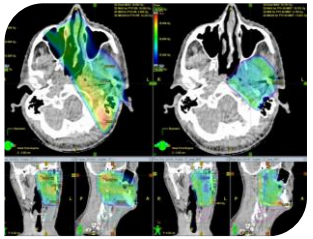
Angiography
- floor/ceil-mounted tripod,
- monoplane/biplane systems,
- generator power 100 kW

Radionuclear diagnostics
- SPECT+CT combined system
- field of view 53 x 39 cm
- X-ray generator 50 kW

Mediso Medical Imaging Systems

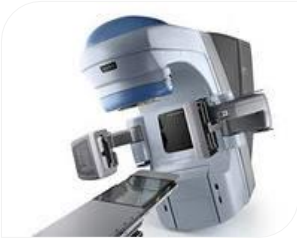
Radiotherapy

Exclusive · varian · BRAINLAB · UJP PRAHA



Planning system
- integrated interface
- planning of all types of therapy

High energy linear accelerator
- any combination of 4 photon energies & 8 electron energies
- Multi-Leaf collimator 120&120HD
- IMRT, VMAT, SRT, PRM



Low energy linear accelerator
- 6 MeV (4 MeV at choice)
- up to 600 ME/min, Multi-leaf collimator 120
- IMRT, VMAT, PRM

Cobalt therapy
- SAD100 cm
- field 45 x 45 cm
- activity up to 15 000 Cu

Brachytherapy
- 24 channels
- activity10.0 Cu
- all types of applicators

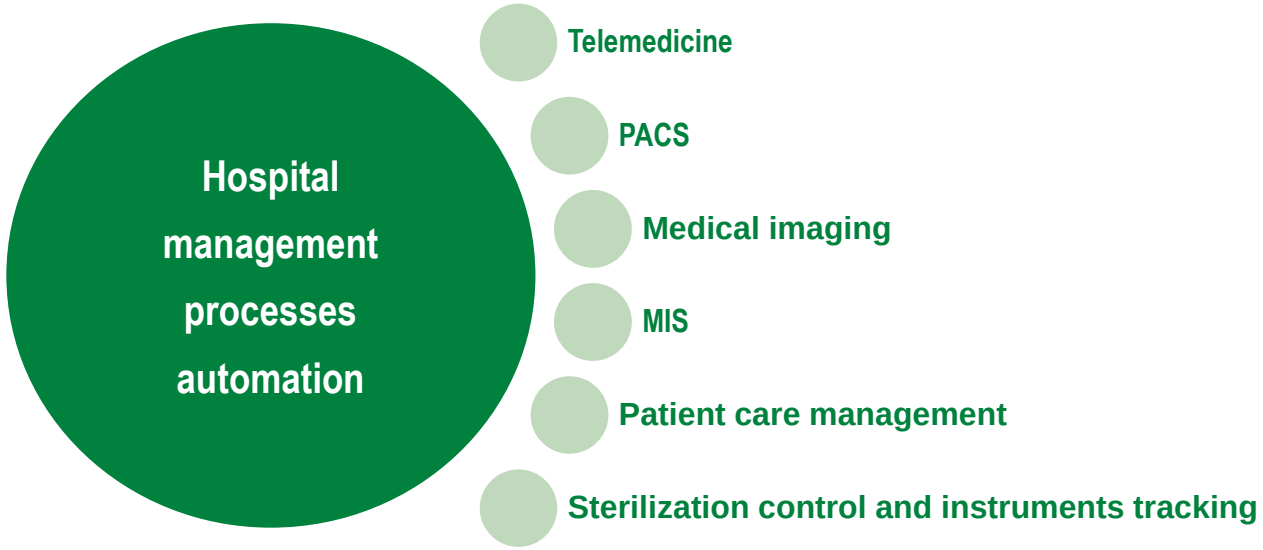
X-ray therapy
-ionization chamber
-automatic filter change
-lightened applicators

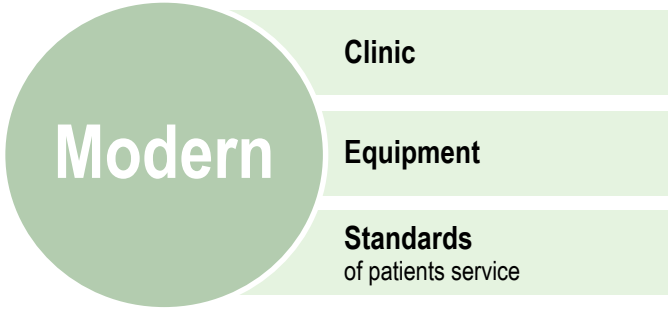
WOmed · PTW · Fix · SUN NUCLEAR corporation

HIS (Hospital information system)

IMS (Information management system)

Integrated innovative IT-solutions in healthcare





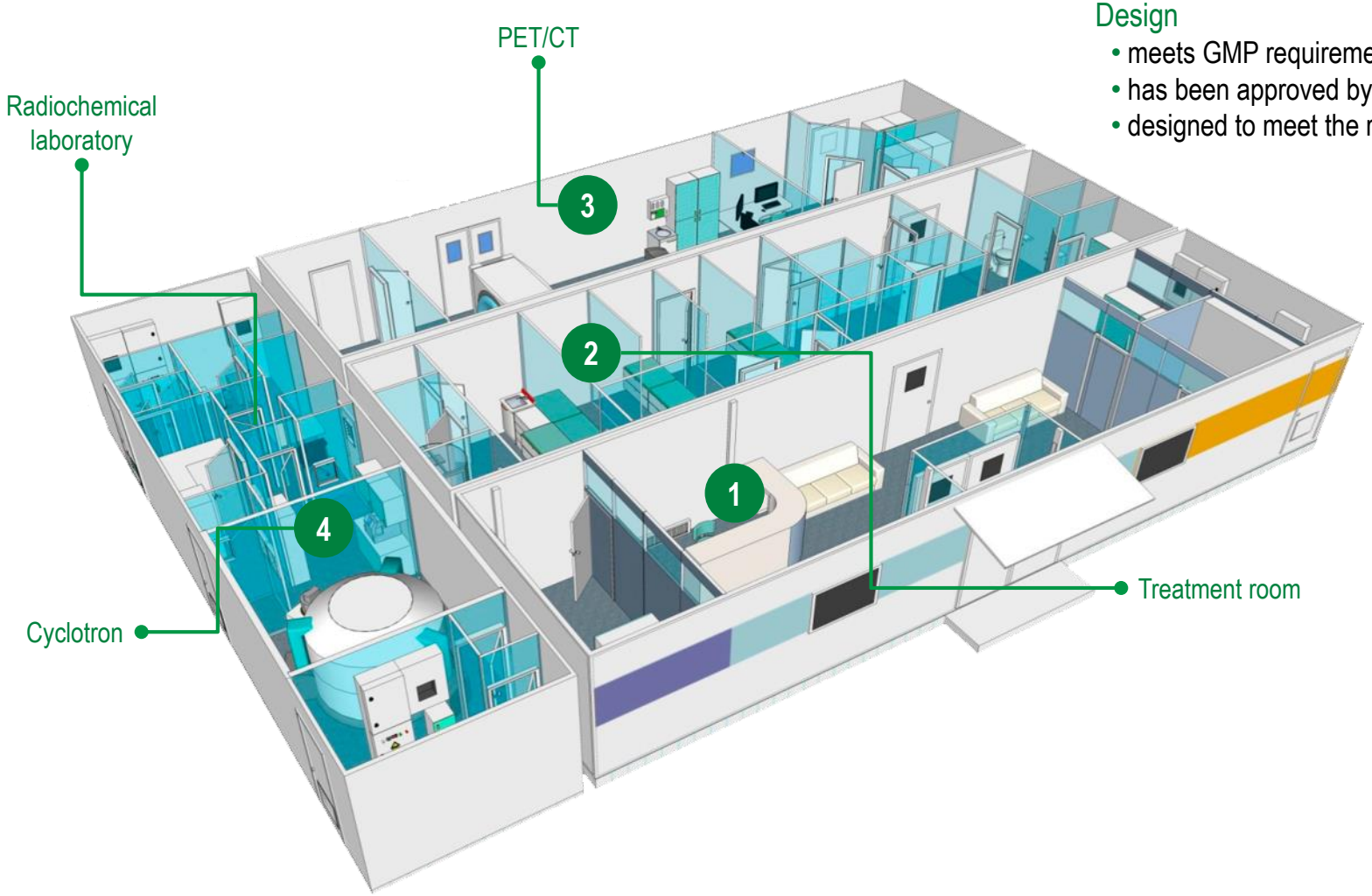
Our suggestion

Modern innovative solutions for processes automation in medical centers that will help a future hospital reduce expenses while

- Designing
- Technologies adoption
- Operation of medical information systems used
- Servicing

Nuclear medicine

"Turn-key" mobile unit. Mobile modular PET-center



Design

- meets GMP requirements,
- has been approved by IAEA expert,
- designed to meet the radiation safety standards

1. Relocatable module with reception desk, “cold zone and staff room (for reports preparation)
2. Relocatable module for packing, “hot” zone and waiting area for the patients
3. Relocatable PET/CT module
4. Relocatable module with cyclotron & radiochemical laboratory

Mobile medical turnkey complexes

МЕЖДУНАРОДНЫЙ СТАНДАРТ КАЧЕСТВА IQS INTERNATIONAL QUALITY STANDART

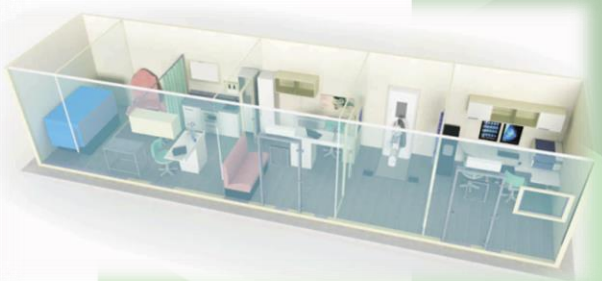
- Mobile medical diagnostics solution

  The design of mobile medical complex provides for the possibility of equipping it with

  - PET/CT
  - MRI1.5 – 3.0T
  - CT 2-128 slices
  - Angiography
  - Laboratory
  - Operation theaters
  - and other types of complexes
- Nuclear Medicine centers in relocatable units
- Mobile ophthalmology & otorhinolaryngology solution
- Mobile dentistry
- “Women health” mobile unit

  (mammography, ultrasound, gynecology)

We offer installing telemedical system in every unit for increasing effectiveness of the entire mobile clinic



Mobile medical turnkey complexes

Advantages of operation

МЕЖДУНАРОДНЫЙ СТАНДАРТ КАЧЕСТВА IQS INTERNATIONAL QUALITY STANDART

LIABILITY:

complexes can be operated in the severe conditions (+65°C).

ECONOMIC EFFECTIVENESS:

no construction costs. The solution can be realized very fast and relocated around the territory of the country.

MULTIPURPOSE USAGE:

- medical assistance in accident management & in war conflicts,
- all types of diagnostics,
- periodic screening,
- preventive medical examination.

HIGH-QUALITY DIAGNOSTICS:

all complexes are equipped with medical equipment of world leading manufacturers.

NO ADDITIONAL EXPENSES REQUIRED

if located on the territory of any hospital.

ISO 9001-2011 (ISO 9001:2008, IDT)

Completed projects

Krasnoyarsk regional perinatal center

One of the best equipped medical centers of Russia

Capacity	190 beds
Site area	44 186 m²
Construction period	1 year and 10 months (one year earlier than planned)
Construction completion date	December 1, 2011

Krasnoyarsk regional oncology center

Capacity	500 beds 150 000 patients per year
Three new blocks are under construction. Site area	106 000 m²
The reconstruction of the existing building is accomplished	Commissioned at the beginning of 2014

Radionuclide therapy department of the Federal Medico-Biological Agency of Russia

Krasnoyarsk

Capacity	1 100 patients per year

Republican perinatal center

Republic of Kabardino-Balkaria, Nalchik

MEDKON –
General contractor

Capacity	130 beds
Site area	32 000 m²
Area of construction	6 685 m²
Construction completion date	December 2016

Republican perinatal center

Republic of Dagestan, Makhachkala

Capacity	150 beds
Site area	39 000 m^2
Construction completion date	June 2017

Regional perinatal center

Krasnoyarsk region, Achinsk

Capacity	120 beds
Area of construction	4 450 m^2
Site area	21 362 m^2
Construction	6-storey building
Construction completion date	December 2016

Regional perinatal center

Krasnoyarsk region, Norilsk

Capacity	110 beds
Site area	22 600 m^2
Construction	6-storey building
Construction completion date	2018

Regional perinatal center

Altai region, Barnaul

Capacity	190 beds
Area of construction	8 894.3 m^2
Site area	34 223 m^2
Construction	6-storey building
Construction completion date	December 2016

Regional perinatal center

Chelyabinsk region

Capacity	130 beds
Area of construction	13 123 m^2
Site area	26 987 m^2
Construction	7-storey building
Construction completion date	2016

Perinatal centers

Moscow region

	Naro-Fominsk	Kolomna	Scholkovo
Capacity	150 beds	150 beds	150 beds
Site area	30 000 m^2	30 000 m^2	30 000 m^2
Construction completion date	2017	2017	2017

Maternity hospitals

Moscow region

	Ramenskoe	Sergiev Posad
Capacity	150 beds	150 beds
Site area	23 000 m^2	16 000 m^2
Construction completion date	2017	2017

Academician N.N. Burdenko Research Institute of Neurosurgery

Radiological department

Equipping	Beam therapy system Linear accelerator TrueBeam, Oncological information and control system «Aria», 3D treatment planning system «Eclipse»
Construction completion date	2017

Completed projects turn-key
Radiological department

Nizhny Novgorod regional oncology dispensary



Novosibirsk regional oncology dispensary



Vladimir regional clinical oncology dispensary



Bryansk regional oncology dispensary



Equipping Radiology departments in Regional oncology dispensaries of the following cities

Moscow,
Saint-Petersburg,
Balashikha (Moscow region),
Rostov-On-Don,
Lipetsk,
Angarsk (Irkutsk region),
Grozny,
etc.

Karpovich emergency city clinical hospital, Krasnoyarsk

Designing and equipping the hospital

Designing and equipping the hospital	Inpatient department 15 operating rooms totally, 3 of which are emergency operating rooms Intensive care unit Express laboratory CSSD
Total area	14 000 m²

Thank you for your attention!

MEDKON

www.medkon.ru