



group of companies
ZARYA

MEDICAL EQUIPMENT STANDARD
CATALOG



THE ZARYA GROUP OFFERS COMPREHENSIVE HEALTHCARE SOLUTIONS.

- We develop, manufacture and supply rehabilitation aids and physiotherapy equipment, research and study new methods of recovery. The MADIN Group has its own publishing house and trains specialists in advanced methods of rehabilitation medicine.
- The Company employs an integrated approach and focuses on a number of areas, thus obtaining a large evidence base, using the latest methods, constantly improving and expanding the range of products.
- Our own testing facilities, Ekzarta Medical Rehabilitation Centre. We regularly test our equipment in actual loading conditions, do our best to meet the therapists' needs, improve the equipment ergonomics and control its quality.
- We train specialists and participate in educational and publishing activities. The International Academy of Rehabilitation Medicine cooperates with leading European and Russian specialists in kinesitherapy, PNF concept, methods of Vojta, Bobath, Kaltenborn-Evjenth, Ekzarta, etc.

CONTENT

PHYSIOTHERAPY EQUIPMENT

«Magnetoturbotron PRO»	2
«R-Wave» ExMI system	4
«Elgos» Electrostatic massager	6

EQUIPMENT FOR MEDICAL REHABILITATION

«ReaTerra» Treadmill	8
«E-helper» Medical exoskeleton	10
«Neurohelper» robotic system for locomotor therapy	12
«Anika» Rehabilitation glove	14
«Imitron» Walking simulator	16
«Balance-Master» Balance simulator	18
«Alter Step» Dynamic stair trainer	20
«Ekzarta» Kinesiotherapy suspension system	22
«ReaPort» Patient transport devices	24
«NeuroOptima» Audiovisual complex	26
«MioHelp» Device for FES and EMG	28
«Neurex» Mesodiencephalic modulation device	30

KINEZO EXPERT REHABILITATION TABLES

Massage tables	32
Bobat and Vojta therapy tables	34
Verticalizers	36

«TOMED» THERAPEUTIC MUD

«Tomed» Therapeutic mud	38
-------------------------------	----



MAGNETOTURBOTRON PRO

«LUX» AND «STANDARD»

- **WIRELESS CONTROL - TOUCH TABLET**
- **USER-FRIENDLY SOFTWARE: PRE-INSTALLED TREATMENT PROGRAMS; POSSIBILITY OF MANUAL INDIVIDUAL CONFIGURATION; CREATION AND MAINTENANCE OF A PATIENT DATABASE, STATISTICS USAGE**
- **ELECTRIC BED FOR MODIFICATIONS OF THE INSTALLATION “LUX” AND “LUX XL”**
- **ILLUMINATION OF THE INNER SPACE OF THE CAMERA**

- A homogeneous rotating magnetic field with a maximum induction of 3 MT simultaneously around the entire body of the patient,
- Much more effective than local magnetotherapy,
- A wide range of indications for treatment and versatility of action.

Technical parameters	«Standard»	«Lux»	«Lux-XL»
Rated voltage of the power supply network, V	230	230	230
Maximum power consumption from the power supply network, kV * A 2 2 2	2	2	2
The weight of the treatment chamber is not more than, kg	500	540	630
Inner diameter of the treatment chamber	715	710	710
Length of the treatment chamber with a pushed/extended bed, mm	2300/3350	2670/4138	2670/4400
Electric bed drive	No	Yes (on request)	Yes (on request)
Maximum patient height, cm	190	210	210

Magnetoturbotron is a physiotherapy equipment for systemic magnetotherapy. The device has a capsule-like form with a large diameter inductor installed inside. The Magnetoturbotron generates a uniform vortical magnetic field with a maximum induction of 3 mT around the entire patient's body, which produces a positive effect on all body systems. The equipment has been produced for more than 15 years. More than a thousand devices have been manufactured, installed and successfully operated in medical institutions in Russia and the near abroad. During this time, the devices have gone through many evolutionary changes: their dimensions have been optimized, the design, electronic components and software have been improved. We are pleased to present you the newest series of devices - Magnetoturbotron PRO. The series includes three versions: Standard, Lux and Lux XL (with an elongated capsule).

The therapeutic effect of the device is associated with the development of the body's responses to the action of the magnetic field. It can be expressed in the form of physico-chemical changes, the development of nonspecific adaptive reactions on the part of the immune, nervous and humoral systems, activation of compensatory and adaptive mechanisms. A wide range of indications and versatility of action the Magnetoturbotron can be applied to the body not only for treatment, but also in the process of rehabilitation and prevention. Magnetic Therapy System is one of the main trends in modern physiotherapy.

GENERAL INDICATIONS FOR USE:

- psychosomatic disorders,
- diseases of the nervous system,
- arterial hypertension,
- diseases of the digestive system,
- diseases of the respiratory system,
- diseases of the endocrine glands,
- diseases of the genitourinary system,
- immunodeficiency conditions,
- prevention and treatment of early and late radiation reactions (during the course of radiotherapy),
- cancer rehabilitation

CONTRAINDICATIONS:

- pregnancy,
- stage II B – III circulatory failure,
- systemic blood disorders,
- foreign magnetic bodies such as pacemakers, acute viral infections,
- vasculitis and other pathological processes accompanied by persistent bleeding.

The Magnetoturbotron installation is available in three versions: «Standard», «Lux» and «Lux XL» (elongated).



«LUX»



«STANDARD»



«RWAVE» EXTRACORPOREAL MAGNETIC STIMULATION SYSTEM

- NO STRESS FACTORS
- NO PAIN OR DISCOMFORT DURING THE PROCEDURE
- HYGIENE AND SANITARY SAFETY
- HIGH CAPACITY

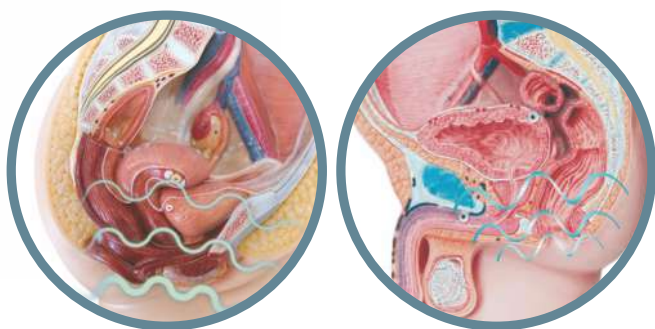
Technical specifications	RWave
Capacity, kW	1.5
The duration of one stimulation pulse at the output of the control unit, μs	270 ± 50
Frequency, Hz	1-100
Induction on the surface of therapeutic chair, T	4
Impulse	Smooth impulse increase/decrease
Control	Tablet remote control
Programs	18 preset +manual mode
Database management	Software app
Height adjustment	gas lift system/ electric actuator



Extracorporeal Magnetic Stimulation System of the neuromuscular apparatus of the pelvic floor «RWave» - is a highly effective non-invasive method for treating various neuromuscular disorders of the pelvic floor in men and women.

The device is a specialized chair with a magnetic inductor built into the seat.

The device sends discrete pulses that affect nerve fibers and stimulate the contraction of the pelvic floor muscles and pelvic organs followed by relaxation. Their training takes place, blood supply improves, rhythmic processes normalize.



CONTRAINDICATION:

– FOR MEN:

- chronic pelvic pain,
- chronic prostatitis category III,
- erectile dysfunction,
- premature ejaculation,
- urinary incontinence,
- post-operative recovery after radical prostatectomy,
- lower ureteral calculi,
- urinary incontinence/rectal incontinence in children.

– FOR WOMEN:

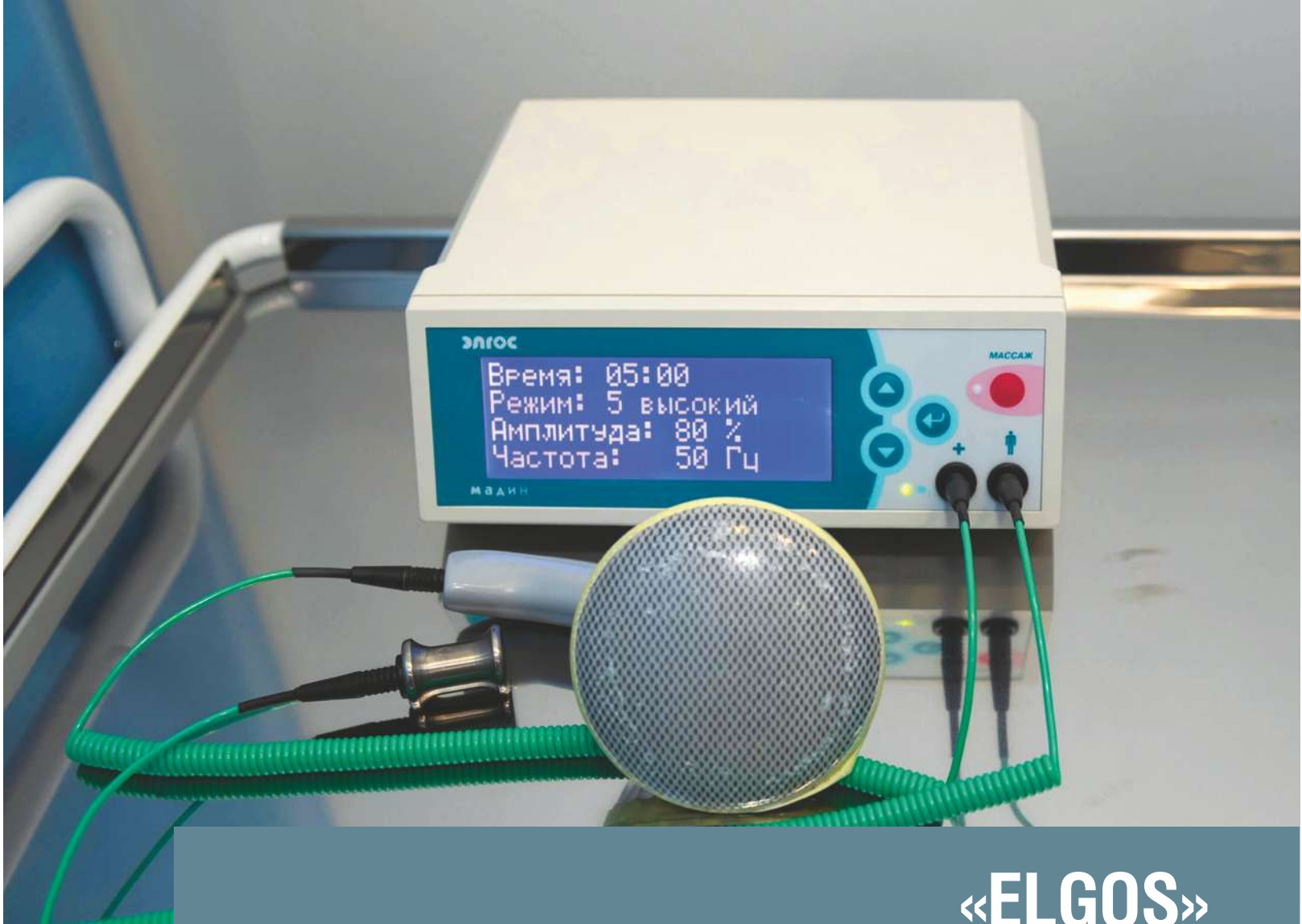
- chronic pelvic pain,
- chronic inflammatory disease of the pelvic organs,
- urinary incontinence,
- preparation for IVF to improve the uterine lining,
- Pelvic Congestion Syndrome,
- female sexual dysfunction(anorgasmia),
- postpartum Recovery (strengthen and restore pelvic floor).

GENERAL CONTRAINDICATIONS:

- the general contraindications to physiotherapy
- pregnancy,
- acute hemorrhoids,
- bleeding,
- cardiac pacemaker, insulin pumps, intrauterine device, falloprosthesis made from magnetic
- materials.

! Attention, may influence the length of the menstrual cycle.





«ELGOS» ELECTROSTATIC MASSAGER

The effect of «Elgos» Electrostatic Massager is based on the deep tissue oscillation.

The method includes exposure of the patient's body to a low-frequency electrostatic field of high intensity with changeable modes (the ratio of the pulse/pause duration) and with varying intensity. The electrostatic field induces varying vibrations in tissues, extending to a considerable depth. Oscillatory processes have analgesic and antispastic effect, improve tissue trophism, local hemodynamics and lymph circulation, promote tissue regeneration.

«Elgos» Electrostatic Massager has a wide range of applications in medicine, cosmetology and professional sports.

- **THREE MODELS ARE AVAILABLE: STATIONARY, PORTABLE AND MAX**

- **HAS ANALGESIC AND ANTISPASMODIC EFFECTS**
- **CONTRIBUTES TO A SIGNIFICANT REDUCTION IN SWELLING OF TISSUES**
- **CAUSES ANTI-INFLAMMATORY AND ANTIFIBROTIC EFFECTS**
- **ENHANCES HEMODYNAMICS AND MICROCIRCULATION**
- **ALLOWS TO IMPROVE LYMPH FLOW AND TISSUE TROPHICITY**
- **ACCELERATES REPARATIVE REGENERATIVE PROCESSES**
- **INCREASES TISSUE ELASTICITY**

TECHNICAL SPECIFICATIONS OF ELGOS ELECTROSTATIC MASSAGER:

- 5 treatment modes,
- Output voltage: 0 to 430 V (0 to 100% on the device interface),
- Output signal frequency: 5-250 Hz,
- Procedure duration: 1-30 minutes,
- Overall dimensions, mm:
 - Stationary: 235x205x90,
 - Portable: 211x142x85.
- Weight: 2 kg,
- Power supply:
 - 220 ± 23V, 50 Hz for stationary equipment,
 - 3 AA batteries 1.2 V for portable equipment.



A new version of a proven device!

- Modern, intuitive interface,
- "Smart" version of the device: dozens of pre-set programs,
- Each program includes animated guidance on massage techniques,
- Two channels for simultaneous treatment of two patients,
- Convenient stand with storage compartments for accessories,
- Trendy medical design.

GENERAL INDICATIONS:

- abnormally low or high muscle tone, muscular disorders,
- various pains,
- blood and Lymph Diseases, edema,
- trophic changes in soft tissues.
- prevention of premature aging
- treatment and prevention of cellulite
- fast recovery after cosmetic surgery
- milk stasis.

CONTRAINDICATIONS:

- acute infections,
- skin infections,
- active tuberculosis,
- thrombophlebitis,
- erysipelas,
- malignant tumors in patients who did not undergo radical operations,
- acute decompensated cardiovascular diseases,
- electronic implantable cardioverter defibrillators (pacemakers),
- pregnancy,
- electromagnetic hypersensitivity.



STATIONARY



PORTABLE



«REATERRA+» TREADMILL

"ReaTerra+" is an updated version of the "ReaTerra" medical treadmill, featuring biofeedback and programmable individual workload levels.

The device is designed for cardiac and neurological rehabilitation. It can be controlled via a built-in touchscreen display or a tablet; a remote control is also included.

- **CONNECTIVITY OPTIONS FOR MEDICAL AND RESEARCH EQUIPMENT: 1 USB PORT FOR DATA EXPORT FROM THE TREADMILL, + 1 RS-232 PORT FOR EQUIPMENT.**

The "ReaTerra" treadmill is also suitable for musculoskeletal rehabilitation, medical fitness, and use as an exercise device for stress testing.

Technical specifications

Patient's height, min.	80 cm
Patient's weight, max.	160 kg
Range of variation of blade angles relative to the horizontal, %	(0...14%) / (0...25%)
Belt movement direction	Forward/backward
Speed range	from 0.1 to 14 km/h or from 0.1 to 22 km/h
Belt speed increment	0.1 km/h
Handrail height adjustment, cm	100 to 130
Handrail width adjustment, cm	51 to 81

KEY FEATURES FOR NEUROREHABILITATION:

- Body weight support system: an electric hoist with a backup power source (built-in batteries) ensuring at least 4 "lift/lower" cycles in the event of a power failure, plus a specialized safety harness*.
- 4 types of handrails: short fixed, long fixed, long adjustable, and small (pediatric) adjustable.
- Wheelchair access ramp.
- Seating for medical staff (2 units).
- Speed adaptation system (ARS): adjusts the treadmill belt speed to the patient's walking speed, enabling the "ReaTerra" treadmill to be used in conjunction with the "E-helper" exoskeleton.
- Optional "Madis" virtual environment system: simulates walks in various locations (forest, city, etc.) to provide additional patient motivation.
- Gait analysis software: measures parameters such as stride length and symmetry. *Alternatively, the system can be used with the "ReaPort" rail system.



KEY CARDIAC REHABILITATION FEATURES:

- wireless heart rate sensor;
- cardiac rehabilitation software suite: testing using internal protocols, operation based on heart-rate-dependent rehabilitation profiles (using minimum and maximum heart rate) and specific percentages of maximum heart rate, ability to create customized rehabilitation profiles, two patient workload options (based on heart rate or preset power output);
- 6-minute walk test to determine the functional class of chronic heart failure.





«E-helper» and «E-helper FES» MEDICAL EXOSKELETON

- TO ENSURE HIGHLY EFFECTIVE AFFERENT FEEDBACK, THE "E-HELPER FES" MODEL IS EQUIPPED WITH AN INTEGRATED, SYNCHRONIZED SYSTEM FOR FUNCTIONAL ELECTRICAL STIMULATION AND

The "E-Helper" exoskeleton is designed for the rehabilitation of patients with impaired or lost lower-limb motor function. It has been demonstrated that neuroplasticity processes can be activated in patients with balance and gait disorders by enhancing afferent input from paretic limbs. Adequate and continuous afferent input can be achieved through regular, prolonged, and targeted training—precisely the opportunity offered by "exorehabilitation." User-friendly, modern software enables the creation and implementation of personalized rehabilitation programs and allows for the real-time assessment of progress.

E+HELPER

Technical features of the "E-Helper" that enhance rehabilitation efficiency include:

- a system for rapid adjustment to the patient's anthropometric data;
- up to 8 hours of autonomous operation;
- support for patients weighing up to 110 kg and ranging from 150 to 190 cm in height;
- the ability to climb stairs and turn around; an integrated microcomputer for patient database management and statistics collection;
- independent power adjustment for limb motors (a function used for patients with hemiparesis);
- dynamic spasticity assessment (the exoskeleton monitors changes in the force exerted by the motors driving limb movement);
- and first-step initiation (during motor rehabilitation, it is crucial to detect even the slightest muscle effort from the patient and sustain the resulting movement).



Movement initiation can be triggered by:

the system monitoring the pressure exerted by the patient's limb against the brace;
the system tracking changes in torso position;
or monitoring muscle activity via EMG sensors—the most precise method for detecting muscle activity (available in the "E-Helper FES" model).

The "E-Helper" exoskeleton features a special option for easy donning: the exoskeleton's limb assembly includes a hinge that allows it to be swung outward.

Key indications for "exorehabilitation" include:

- stroke sequelae manifesting as motor impairments;
- traumatic brain and spinal cord injury sequelae manifesting as motor impairments;
- pathological gait patterns associated with musculoskeletal disorders;
- multiple sclerosis;
- and cerebral palsy.





«NEUROHELPER»

ROBOTIC SYSTEM FOR LOCOMOTOR THERAPY

Therapy using the "NeuroHelper" system is based on the principle of neuroplasticity; its goal is to restore motor activity and postural balance in patients with impairments resulting from central nervous system (CNS) diseases and injuries. The system combines locomotor therapy—delivered via an exoskeleton and a medical treadmill—with motivational, game-based training provided by the "Madis" virtual environment system (simulating walks in various settings such as forests or cityscapes). "NeuroHelper" ensures a physiologically correct gait pattern and movement repeatability, thereby accelerating the rehabilitation process. The medical treadmill features an Adaptive Speed Control (ASC) system that synchronizes the belt's movement with the patient's motion within the exoskeleton; this, combined with a patient support and safety system based on an electric floor-mounted rail structure, delivers key advantages: reduced workload for medical staff and optimized space utilization within the rehabilitation department.



A wireless heart rate monitor allows for patient monitoring during exercise. Long, adjustable handrails featuring elbow supports can be easily tailored to any patient. To ensure highly effective afferent feedback, the exoskeleton used in the system is equipped with an integrated, synchronized 8/16-channel functional electrical stimulation and electromyography system, featuring a convenient layout of wires and electrodes. The exoskeleton can be quickly and easily adjusted to the patient's anthropometric measurements and comes with a set of pads for the splints, back, and abdomen.

GENERAL INDICATIONS FOR USE:

- stroke sequelae manifesting as movement disorders;
- sequelae of traumatic brain injury (TBI) and spinal cord injury (SCI) manifesting as movement disorders;
- pathological gait patterns associated with musculoskeletal disorders;
- multiple sclerosis;
- cerebral palsy.





«ANIKA» REHABILITATION GLOVE

- ANIKA IS A BIO-FEEDBACK BASED SIMULATOR USED TO REGAIN FINE MOTOR SKILLS AND MOTOR COORDINATION
- GLOVE WITH MOTION SENSORS + SPECIALIZED SOFTWARE
- SOFTWARE SERVER VERSION IS AVAILABLE
- THE DEVICE CAN BE USED FOR THE REMOTE REHABILITATION

OPTIONS AND ADVANTAGES:

- Data collection, examination, diagnostics,
- Selection of individual programs and difficulty levels,
- Patient motivation in game form,
- Progress data collection, rehab program adjustment in real time,
- Treatment data is stored on the server.

THE AID IS EFFECTIVE FOR THE FOLLOWING:

- Restoring fine motor skills after suffering illnesses and injuries,
- Infantile Cerebral Palsy,
- Parkinson's disease,
- Stroke rehabilitation.



GENERAL OPERATION PRINCIPLES AND STAGES:

Anika Rehab Complex consists of a glove and computer software. Sensors are applied to the back of the hand, forearm and distal phalanges to record movements and transmit information about them to the program.

The first stage includes examination and diagnostics.

The number of passive and active movements of fingers, wrists and forearms is recorded. The final results are saved. The program analyzes the data and determines options for the patient.

The second stage is rehabilitation. Exercises of varying difficulty are offered to the patient based on the analysis results. The complex is based on visual feedback. The process is displayed on the monitor in real time for the patient to control the correctness of the exercises. The therapist receives objective and accurate information on the patient's actions in real time. Thus, the therapist can configure the program and choose the most suitable exercises for each particular case. The workout is arranged in a game format, which motivates the patient to repeat the movements and increases the effectiveness of rehabilitation process.

The third stage includes control and adjustment of the rehabilitation process.

The rehabilitation data is stored in the program for the therapist to monitor treatment process and adjust it if required. The program provides remote interaction with specialists of the health care institution. In this case, the program stores information on the statistics server available for the therapist at any time.





«IMITRON» WALKING SIMULATOR

- ACTIVE AND PASSIVE MECHANOTHERAPY OF LOWER LIMBS
- MOTOR REHABILITATION AFTER STROKE AND SPINAL INJURIES

- FOR MEDICAL REHABILITATION CENTRES AND HOME EXERCISES
- TWO VERSIONS (FOR CHILDREN AND ADULT PATIENTS) ARE AVAILABLE

Technical specifications	«Imitron» (for adult patients)	«Imitron» (for children)
Patient's weight, max.	150 kg	60 kg
Patient's height	145–185 cm	110–145 cm
Dimensions (L x W x H)	100 x 85 x 135 cm	100 x 70 x 120 cm
Weight	55 kg	45 kg



«Imitron» **Walking Simulator** is available in two versions: For adult patients and for children. Both versions can be equipped with an electronic measurement unit to measure walking speed, count steps and record the workout duration.

OPERATION:

With the help of hand movements, the patient synchronously moves the structural elements supporting his/her lower limbs. The torso stabilization system helps to maintain an upright position, and the patient moves his/her lower limbs with help of hand work, due to which a walking process is simulated.

«Imitron» **Walking Simulator** allows exercising leg muscles and joints in a passive mode. The upper limbs and the shoulder girdle also work actively. The muscles of the back and abdomen are exercised, the body and pelvis turn and bend. The simulator can be used by patients with the thoracic and cervical spinal cord injuries. Additional supports are provided for such patients.



GENERAL INDICATIONS:

- hemi-, para- and tetraparesis after brain diseases or spinal cord injuries,
- leg paralysis and paresis,
- cerebral palsy and other congenital neuromuscular disorders,
- strokes.

EFFECTS:

- reducing the risk of osteoporosis,
- dynamic load on bones and muscles (exercising),
- prevention of joint instability and osteoarthritis,
- improved blood circulation,
- respiratory system stimulation,
- prevention of urinary tract infections,
- improving the emotional and mental state of the patient.

THE STANDARD SUPPLY INCLUDES:

- 1 walking simulator,
- 1 support for the lumbar spine with a belt retainer,
- 2 knee straps.

ADDITIONAL OPTIONS:

- electronic step counter (built-in),
- 2 additional side supports,
- 1 additional back support,
- 1 additional chest support,
- special gloves.





«BALANCE-MASTER»

BALANCE SIMULATOR

«**BALANCE-MASTER**» is a bio-feedback simulator. It is designed to restore balance, develop movement coordination and balance.

It is used to treat patients with neurological disorders and impaired musculoskeletal system, and for the rehabilitation of patients with spinal cord and brain injuries. A built-in motion sensor and additional software allows the therapist to stimulate the patient's motivation with interactive training games and to monitor the recovery dynamics.

Technical specifications	
Overall dimensions	140 x 108 x 82,5 cm
Maximum power consumption	250 W
Mains voltage	220 B, 50 Hz
Maximum load	120 kg
Range of balancing angles	
Lever position I	no free movements are allowed
Lever position II	0...6°
Lever position III	0...12°

«**Balance Master**» Simulator is used to perform complex rehabilitation exercises in a vertical position. It corrects errors when transmitting a signal from the brain to the muscles. The simulator prepares the patient for making the first step. It provides gradual adaptive training for the correct movement patterns. The simulator is equipped with an electric lifting device and an auxiliary belt to verticalize the patient from a sitting position.

Applications:

- Recovery from brain injuries and spinal cord injuries,
- Stroke recovery,
- Maintaining the muscle tone in elderly patients,
- Treatment of patients with Parkinson's disease,
- Symptomatic therapy for multiple sclerosis.

OPERATION:

The patient is placed on the simulator, his/her feet, knees, and pelvis are fixed. The patient's body is stabilized. The rehab procedure is made in the form of a computer game. The patient controls its action by deflecting his/her torso in different directions. The program reads the patient's motions with help of special sensors installed on the simulator, and displays the data on the monitor. The program can be adjusted depending on the results.

- Exercises are made in the form of a game,
- Bio-feedback allows the therapist to quickly track treatment and rehab progress.
- Exceptional stability of the simulator and reliable fixation prevent the fear of losing balance and falling down.



EFFECTS:

- Learning correct movement patterns,
- Spasticity reduction,
- Balance training,
- Movement rehabilitation,
- Stimulation of the gastrointestinal and urinary systems,
- Osteoporosis prevention

VERSION

STANDARD CONFIGURATION 1:

- Balance Master Simulator with mechanical lifting device.

STANDARD CONFIGURATION 2:

- Balance Master Simulator with electric lifting device.

ADDITIONAL OPTIONS:

- Motion sensor + bio-feedback software,
- Additional leg support,
- Additional head and back support.

* Supplied upon request are: Laptop, monitor, monitor stand, HDMI cable (not rated as medical equipment).





«ALTER STEP» DYNAMIC STAIR TRAINER

«Alter Step» Dynamic Stair Trainer is a dynamic simulator for the musculoskeletal system training and recovering from injuries, strokes, cerebral palsy, cerebrovascular diseases and other nervous system pathologies which affect walking function. Alter Step Dynamic Stair Trainer combines two devices: rails and a four-step stair with anti-slip coating. The stairs are easily adjusted for each patient depending on his/her individual characteristics. The stairs are adjusted in the range 0 - 15 cm high by an electric drive. It means that patients can start leg exercises in early rehab stages. It greatly benefits to the process of restoring the motor functions of lower limbs. The simulator in the flat position (at zero step height) is used as parallel bars in rehabilitative & physical therapies. The height and width of handrails can be adjusted.

Technical specifications

Overall dimensions, mm	2490/2850x890x1100/1600
Max. load, kg	150
Wheelchair ramp length, mm	600/900
Step height, cm	0 – 15
Power supply, V/Hz	220/50
Power consumption, V	20

«Alter Step» Dynamic Stair Trainer can be equipped with one or two ramps for patients in wheelchairs. It is easy to use and comfortable for patients with impaired mobility. The simulator can be used in rehabilitation departments and centres, health care institutions, nursing homes, neuro and cardiac rehabilitation centers.

«ALTER STEP» DYNAMIC STAIR TRAINER:

- Promotes the patient motivation,
- Helps to overcome the psychological barrier of making the first step,
- Saves the therapist's time and efforts,
- Can be used by the patient for self-directed training

VERSIONS AVAILABLE:

- «Alter Step» Dynamic Stair Trainer with a short ramp (600 mm),
- «Alter Step» Dynamic Stair Trainer with a long ramp (900 mm),
- «Alter Step» Dynamic Stair Trainer with two ramps (600 mm each).



At customer's option «Alter Step» could have a «two-sided» design. The stair trainer can consist of two staircases and a platform (Fig. 1) or a staircase, a platform and a ramp (Fig. 2).





«EKZARTA» KINESIOTHERAPY SUSPENSION SYSTEM

- **SELECTION OF THE OPTIMAL LOAD LEVEL.**
- **RESTORATION OF THE NEUROMUSCULAR CONTROL.**
- **ELIMINATION OF PAIN SYNDROME.**
- **DEVELOPMENT OF CORRECT MOVEMENT PATTERNS**

The equipment is used together with the «Ekzarta» method to examine the functions of the fascial muscular chains and to create and implement a rehab program based on the diagnosis. The optimal load level is achieved with different exercises. The rehab program is aimed at restoring neuromuscular control, eliminating biomechanical disorders in joints and developing correct movement patterns.

OPERATION:

The patient is placed on a table driven by a Kinezo-Expertrelectric drive. Slings are fixed under the patient's limbs, pelvis and/or chest using carabiners on cables hanging down from the ceiling structure. A wide sling mounted on thick elastic straps can be placed under the patient's body to facilitate exercising. In the stretched position, this sling is used to lift the body or its parts upward. Then the table is lowered or the sling cables are pulled up lifting the patient's arms and legs. As a result, the patient's body or its parts are suspended. A rehabilitation session includes a number of exercises.

There is a set of head suspension slings (for exercises involving the cervical spine), as well as suspension slings for arms, legs, pelvis and chest. The patient's pelvis and/or chest are suspended on elastic straps to facilitate exercise and lift the body upward against gravity. The exercise load can be easily adjusted by changing the strap elasticity. There are 6 ways to decrease or increase the load thus selecting the difficulty level for a patient with any severity of motor impairments or severe pain.

- The equipment is used for doing special rehab exercises.
- The patient is suspended with all muscles relaxed and with almost absolute absence of the gravity effect. The therapist gradually and safely increases the amplitude of movements with very little resistance from the patient's muscles.
- Activates core muscles.

Complex movements are split into simple ones for patients with neurological disorders (stroke, cerebral palsy, spinal cord injuries, etc.), worked out, and then combined into movement patterns.

«**Ekzarta**» **Kinesitherapy Suspension System** is fully adapted for almost any functional exercises and includes all the necessary accessories (slings, elastic straps, ropes, rollers, Ekzarta Balance sensory motor cushions, etc.).



APPLICATIONS:

- spine and/or joint pain,
- arthritis of the large joints,
- frozen shoulder,
- stiff-person syndrome,
- spinal disc herniation,
- infantile cerebral palsy,
- stroke,
- spinal cord injuries,
- rehab fitness.

INSTALLATION DIMENSIONS:

- ceiling structure, (L x W x H), mm, kg - 1780 x 800 x 230,
- floor structure, mm (L x W x H) - 2190 x 1780 x 2300.





«REAPORT» PATIENT TRANSPORT DEVICES

- "REAPORT" DEVICES ARE PRACTICAL AND DESIGNED TO SUIT THE VARIOUS SETTINGS AND CONDITIONS WHERE PATIENT TRANSPORT OR ENHANCED SAFETY DURING GAIT RETRAINING MIGHT BE REQUIRED.

"REAPORT" Rail System (RP-1)

It consists of a stationary rail rigidly fixed to the ceiling or a free-standing frame structure, a lifting unit, and a movable carriage. The design allows for transfer between rooms and includes a swivel mechanism for transitioning between connecting rails oriented in different directions.







Neuro optimA



«NEUROOPTIMA» AUDIOVISUAL COMPLEX

- **THE NEUROOPTIMA COMPLEX IMPLEMENTS A TWO-LOOP BIOFEEDBACK ON THE ECLECTIC ACTIVITY OF THE BRAIN AND HEART RATE. THE DEVICE IS INTENDED FOR ADAPTIVE NEUROSTIMULATION TO CORRECT PSYCHOSOMATIC CONDITIONS OF VARIOUS ETIOLOGIES, INCLUDING STRESSFUL**

Social upheavals, psycho-traumatic crises and extreme factors of modern life form a state of psycho-emotional tension and stress in a person, which lead to a violation of adaptation mechanisms and multiple functional disorders. Under conditions of chronic complex exposure, this causes a failure of the body's defense systems, the appearance of persistent functional disorders, and then a disease. Since the drug treatment of such initially emerging «discomfort syndromes» is difficult, non-drug methods of systemic exposure are especially in demand, providing effective correction of psychogenic functional disorders in the human body and its timely return to the optimal state.

Research by neurophysiologists indicates that correcting brain rhythms significantly improves the response to cognitive-behavioral and pharmacological therapy.

The apparatus was developed on the basis of scientific works of the Institute of Cell Biophysics of the Russian Academy of Sciences.

The device is designed for adaptive neurostimulation aimed at **correcting psychosomatic conditions of various etiologies**, including recovery from neurological disorders, the management of stress-induced functional disorders, and the improvement of cognitive skills in children with minor brain dysfunction and other neurological conditions (e.g., stroke sequelae, PTSD, ADHD, etc.). Use of the NeuroOptima device does not require the patient to master any special skills; rhythm regulation occurs unconsciously.

BENEFITS OF USE:

- Normalization of sleep (circadian rhythms)
- Combating chronic fatigue
- Combating stress-induced conditions and improving concentration
- Combating cognitive impairment associated with stress, trauma, or age-related changes

THE HEADSET CONNECTS TO A PC VIA WIRED OR WIRELESS (BLUETOOTH) CONNECTION.

A "MOBILE" MODE WITHOUT PC CONNECTION IS AVAILABLE.





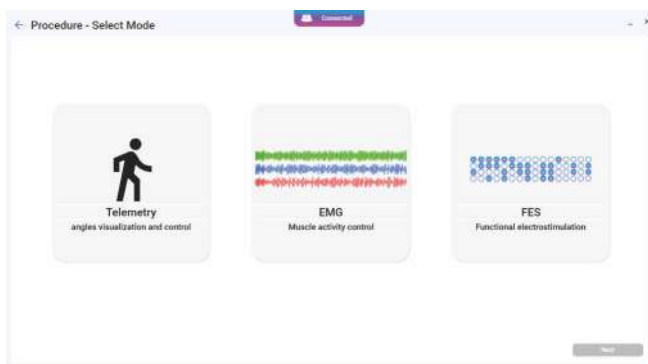
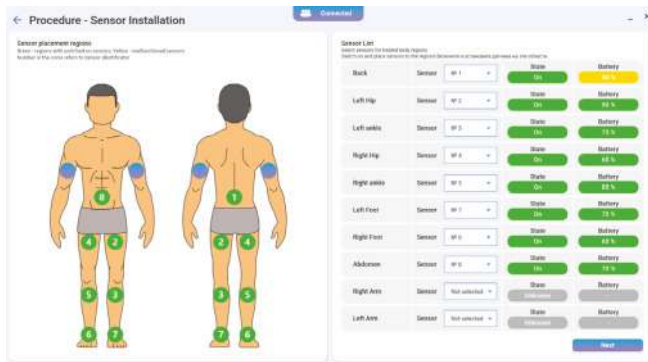
«MIOHELP» DEVICE FOR FES AND EMG

The device consists of a central control unit and eight connectable functional modules; all modules are interchangeable. The modules are attached to the patient's lower legs and thighs.

THE SYSTEM:

- TRACKS THE SPATIAL POSITION OF THE LOWER LIMBS;
- IDENTIFIES GAIT CYCLE PHASES AND ALLOWS ADJUSTMENT OF CURRENT INTENSITY, PULSE DURATION, AND FREQUENCY;
- ALLOWS CONFIGURATION OF THE SPECIFIC GAIT PHASES DURING WHICH THE ELECTRICAL STIMULATOR ACTIVATES.





The modules perform three functions:

- telemetry
- functional electrical stimulation (FES)
- functional electromyography (EMG)

Each wireless module features a sensor that tracks spatial orientation and two channels for recording EMG or delivering FES. They are attached to the patient's body using special elastic straps. The system is controlled via specialized software, which enables patient and procedure database management and offers a summary analysis option. Before each procedure, an initial gait recording is performed, allowing the stimulation pattern to be customized for each patient using a 3D avatar. The system provides instructions for connecting leads to the most commonly targeted muscles and also supports custom electrode placement. The software allows the stimulation mode to be configured according to gait phases: each full step is divided into 16 phases. During walking, the functional electrical stimulation system monitors the gait cycle, joint angles are recorded during each procedure (depending on the configuration).



EXAMPLES OF PROGRAM SCREENS



«NEUREX» MESODIENCEPHALIC MODULATION DEVICE

- **MESODIENCEPHALIC MODULATION (MDM) IS A NON-INVASIVE, DEVICE-BASED NEUROMODULATION METHOD TARGETING CENTRAL REGULATORY STRUCTURES INVOLVED IN THE DEVELOPMENT OF PAIN, STRESS RESPONSES, AND AUTONOMIC IMBALANCE**
- **THE PRACTICAL OBJECTIVE OF MDM IS TO SHIFT THE BODY FROM A STATE OF "STRESS OVERLOAD" TO A MORE MANAGEABLE STATE OF ADAPTATION AND RECOVERY**

Physiologically, the effects of MDM are linked to the activation of the endogenous opioid system (μ -endorphin), which supports an analgesic effect and reduces secondary sympathetic tension. Concurrently, modulation of the hypothalamic-pituitary axis is observed, characterized by a reduction in the excessive cortisol-mediated stress response and more stable neurohumoral regulation. Metabolic adaptation mechanisms are also influenced, leading to the normalization of insulin regulation and energy metabolism (to the extent possible for the specific patient). Clinically, this manifests as reduced pain and anxiety-related autonomic symptoms, improved sleep and treatment tolerability, a lower "cost" of the stress response, and support for recovery processes. MDM is a standardized procedure within comprehensive treatment programs: it is a non-invasive method performed according to a protocol and monitored via specific parameters, thereby complementing baseline therapy and enhancing the manageability of the patient's condition.

Operating principle: electrical current pulses are delivered by the NeureX device via conductive rubber electrodes attached to the patient's head, with the positive electrode applied to the forehead and the negative electrode to the back of the head. The physician determines the pulse waveform (treatment program), duration of exposure, and treatment regimen based on the nature of the condition. The NeureX device may be used by medical personnel in healthcare facilities or by patients at home for self-administered treatment as prescribed by their attending physician.

The primary effects of MDM are:

- anti-stress,
- analgesic,
- reparative-regenerative,
- anti-inflammatory,
- immunotropic,
- antihypoxic,
- and – potentiation of the effects of medicinal drugs.

The main areas of application for MDM are:

- cardiovascular diseases,
- pulmonology,
- gastroenterology,
- urology,
- neurology,
- endocrinology, and – surgery/traumatology.

Contraindications for MDM:

- Absolute contraindications include: metal fragments in the brain.
- Relative contraindications include: heightened skin sensitivity with severe irritation or damage at the electrode placement site, epilepsy, oncological diseases, and schizophrenia in the acute stage.





«KINEZO EXPERT» REHABILITATION TABLES

- **MAX. LOAD: 180 KG**
- **CONVENIENT FRAME HEIGHT SWITCH**
- **VARIOUS OPTIONS ARE AVAILABLE FOR DIFFERENT APPLICATIONS**
- **CERTIFIED HIGH-QUALITY SPARE PARTS**

Kinezo Expert tables are available in four models with electric drives differing in the number of sections and motors. The electric drive can be used with a load of up to 180 kg.

Model	Number of sections and motors	Characteristic features
«Kinezo Expert-2» Massage Table	2 sections, one motor	Gas struts raise and lower the head section.
«Kinezo-Expert-3» Massage Table	3 sections, one motor	Gas struts raise and lower the head and leg sections.
«Kinezo Expert-7» Massage Table	7 sections, one motor	Additional armrests are installed in the head and middle sections. The armrests installed in the head section can be lowered down, and the armrests installed in the chest section can rotate down on the axis.
«Kinezo Expert-7/2M» Massage Table	7 sections, two motors, pivot function	The middle section can be raised up. The second motor is controlled with a small remote under the chest section.

KINEZO

Expert



«Kinezo Expert» massage tables are ideal for various applications in medical and rehabilitation centres, spas, hospitals, massage rooms and beauty salons.

Table height can be easily adjusted with an electric drive. The frame height switch ensures smooth raising and lowering of the table on either side with an easy foot movement without distraction from the procedure.

Regardless of the table configuration, the highest product quality and its characteristics remain unchanged: :

- LINAK electric drive for smooth height adjustment;
- STABILUS gas struts for setting the inclination angle of individual sections;
- frame switch for height adjustment on all sides;
- face hole in the upper section;
- wheels with a one-touch lift and lock option;
- adjustable legs to compensate for the uneven floor;
- wear-proof upholstery is made from certified materials.

APPLICATIONS:

- massage,
- manual therapy,
- physiotherapy,
- kinesitherapy.





«KINEZO EXPERT» FOR BOBATH & VOJTA THERAPY

- TABLES FOR BOBATH & VOJTA THERAPY HAVE A VERY LARGE WORK SURFACE AND HIGH DURABILITY, ALLOWING THE THERAPIST TO STAND ON THE TABLE WITH THE PATIENT LYING ON IT

Wide «Kinezo Expert» kinesitherapy tables are designed for rehabilitation after injuries and diseases damaging the central nervous system and accompanied by impaired motor activity. They are cerebral palsy, strokes, brain injuries, spinal cord injuries, and musculoskeletal disorders. Kinezo Expert tables are perfect for Bobath & Vojta therapy and PNF therapy.

Model	Number of sections	Characteristic features
Kinezo Expert B1 therapy table	1 section	width: 120 or 160 cm
Kinezo Expert B2 therapy table	2 section	width: 120 or 160 cm
Kinezo Expert B3 therapy table	3 section	width: 120 or 160 cm

KINEZO

Expert



«Kinezo Expert» tables are equipped with an electric drive and a 120 to 160 cm wide couch with a load capacity of up to 180 kg. Since different methods and operating conditions require purely individual parameters of kinesitherapy tables, we offer affordable basic equipment and a large number of additional options. Lockable wheels ensure safe and secure lock of the table for continuous operation. When necessary, it can be moved quickly and easily to the right place. The frame height switch ensures smooth one-touch table raising and lowering on both sides without distraction from the procedure.

THE STANDARD CONFIGURATION OF KINESITHERAPY TABLES INCLUDES:

- two different electric control devices: frame or remote control,
- gas struts to change the angle of the individual sections,
- adjustable legs to compensate for uneven floor.

In addition, you can order a lockable wheelbase.

APPLICATIONS:

- Bobath and Vojta therapy,
- physiotherapy,
- kinesitherapy,
- manual therapy,
- massage.





VERTICALIZERS

«KINEZO EXPERT»

«Kinezo Expert» verticalizers are used to move the patient to an upright position, prepare him/her for standing and walking, and prevent negative consequences of a prolonged lying position.

Kinezo Expert electric verticalizers are available in three models differing in the number of motors, sections and adjustment options.

Model	Number of sections and motors, characteristic features
«Kinezo Expert 1»	One section, verticalization available
«Kinezo Expert 1/2M»	One section, two motors, verticalization available
«Kinezo Expert 2/2M»	Two sections, two motors, verticalization available

KINEZO

Expert

«Kinezo Expert» verticalizing tables are used in rehab therapy for patients who cannot stand up without help. They are used to move the patient to an upright position, prepare him/her for standing and walking, and prevent negative consequences of a prolonged lying position. Our equipment is used for rehabilitation in intensive care units. Besides, it is suitable for home therapy.

APPLICATIONS:

- stroke,
- spinal cord injuries,
- brain injuries,
- recovery after neurological surgery.



STANDARD CONFIGURATION INCLUDES:

- electric drive for smooth table adjustment,
- gas struts for setting the inclination angle of the head section,
- adjustable foot supports with anti-slip coating,
- soft chest fixation,
- soft leg fixation,
- table.

The table can be equipped with a face hole in the head section upon the customer's request, in order to use it as a massage table or kinesitherapy table.





THERAPEUTIC MUD

«TOMED»

● TOMED - THERAPEUTIC MUD WITH ACTIVE HUMIC ACIDS

«Tomed» products are made only from specially selected and environmentally friendly chemical-free peat. The raw material has humic acids in an inactive state. In the production of the «Tomed» processing is aimed at transferring humic acids into an active state. These active acids have pronounced therapeutic effects.

● THIS UNIQUE PRODUCT COMBINES NATURAL REMEDIES AND INNOVATIVE TECHNOLOGIES

- Therapeutic mud TOMED has its own thermal effect.
- The highest biological activity compared to other therapeutic muds.
- The mud is easy of use and does not require additional equipment.
- The procedure is cost-effective.

«TOMED» APPLICATOR

- Blister with 10 mud wipes.
- Convenient to use for local procedures
- The effect is similar to traditional methods mud therapy.
- A complete course of treatment can be done at home for lack of time.



«TOMED» APPLICATOR

- The lowest consumption of mud (5-10 gr. Per joint).
- You don't need a mud preparing facilities.
- Economical option for use in health resorts.



«TOMED» AQUA

- Concentrated aqueous solution of humic compounds for bathing and syringing.



CLINICAL EFFECTS:

- regenerative, antioxidant, anti-toxic effect,
- restoration of impaired metabolic energy balance,
- bacteriostatic and bactericidal action,
- immunocorrective effect,
- improved microcirculation,
- cosmetic effects.

INDICATION FOR TOPICAL USE OF «TOMED»:

- diseases of the nervous system, consequences of injuries and neurosurgical operations,
- diseases of the musculoskeletal system: arthropathy, osteoarthritis,
- systemic lesions of the connective tissue, soft tissue diseases,
- skin diseases: dermatitis, eczema, papulosquamous disorders, urticaria, keratoses, etc.





8-930-691-85-06

INFO@ZARYA-MED.COM

WWW.ZARYA-MED.COM