Technomex

Functional training

Cognitive treatment

Virtual reality software

Evaluation of balance and posture

ACX.Rehab

Helping through technology

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CONTENTS

Contact:

export@technomex.pl

+48 32 401 03 50

technomex.eu

Rehabilitation & Diagnostics in Virtual Reality

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ACX.Rehab is a concept of modern rehabilitation and diagnostics in Virtual Reality combining proven classical methods with the possibilities of modern technology.

Evidence based medicine:

- Management of rehabilitation process (from test to training)
- Automatic tracking of patient progres
- Reliable and objective indicators for many areas of training
- Reports based on performance and received data
- Evaluation and research capabilities

Goals / benefits:

- Improved posture, sense of balance and reeducation of proprioception
- Increased range of motion, strength, endurance and muscle coordination
- Better hand-eye coordination and upper extremities motor control
- Reeducation of cognitive functions, memory and problem solving
- Possibility to work with multiple patient simultaneously with high precision and individually planned training
- Heart rate monitoring (with Bluetooth sensors)

Medical products:

- Force plates for balance, load distribution and proprioceptive training
- Devices for functional training of extremities with elastic resistance
- Upper extremities therapy for: hand motor control and cognitive function training

Virtual reality software:

- Real time biofeedback increasing patient's motivation to participate in the rehabilitation process
- Daily support for the therapist: less time lost filling documents, improving focusing on the patient
- Integration of all patient records (automatically collected results of tests and rehabiltation exercises) in one database
- Therapeutic tasks and programs, templates targeted at functional movement precision, divided attention, memory, cognitive functions
- Fast and easy adaptation of the exercise difficulty level to the current needs of the patient

X-Visio Basic

Interdisciplinary therapy using virtual reality.

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X-Visio Basic is a certified system providing exercises in virtual reality with scientifically proven effectiveness in supporting people with depression, anxiety and chronic stress.

Features:

- Safe and virtual enviornment for motor and cognitive therapy
- Exercising of one or more patients simultaneously (version PRO - possibility to expand the set with another VR headset) under constant real-time monitoring
- Offline operation - the system does not require an internet connection
- The ability to continue exercising at home

Benefits:

- Treatment of nervous system diseases
- Prevention and support for the treatment of patients with mental disorders - (depression, anxiety, emotional tension and overload)
- Ignore unpleasant or painful medical procedures
- Reduction of anxiety or emotional tension

X-Visio Basic is a tool supporting:

- Physiotherapists
- Occupational therapists
- Psychologists and psychoterapists
- Neuropsychologists

Who is it for?

- Geriatric patients
- Adults with diseases like neurological strokes and brain injuries, Parkinson's disease, multiple scelrosis, etc.
- Adults with orthopedic conditions

X-Cogni

Upper extremities.

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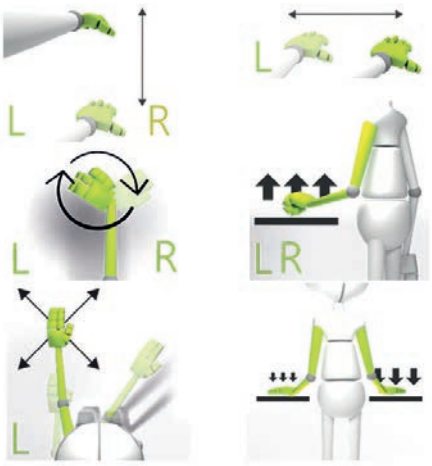

X-Cogni is a therapeutic device for motor reeducation of upper extremities and eye - hand coordination and cognitive disorders training. Active, repeated exercises help to regain lost functionality, afferent and efferent stimulation. It is typically used in occupational therapy and physiotherapy as therapeutic support, enhancement and intensification of the therapy.

Features:

- Evaluation of patient's capabilities and preparation of individual training: GOonGO, strength test, precision test and dynamic tests
- Capable of working with active movement in space, rotation and push-pull mode
- Touchscreen compatible with tools for different grips (cylindric and pinch) and daily activities (cup)
- Sensitive but resistant touch screen
- Easy adjustment of height and tilt of the table allows to work with different ages and needs
- Stable construction and safety (sensor to detect obstacles with height changes)
- Virtual reality supporting patient motivation and improving the therapeutic progress
- Therapy of cognitive disorders: divided attention, memory, problem solving, etc.
- Templates for testing and training programs
- Ability to create user exercises with integrated real-time biofeedback

Benefits:

- Improved cognitive abilities
- Improved movement and eye-hand precision
- Increased muscle strength and coordination

Capri

Upper extremities.

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Capri is a small and portable therapeutic device that can be used for the rehabilitation of patients suffering from dysfunctions of hand control, accuracy, motor and movement coordination of the hand. Capri system is typically used in occupational therapy and physiotherapy as therapeutic support, enhancement and intensification.It is a technologically advanced commitment for conventional forms of hand therapy.

Features:

- Range of motion, strength and proprioception training
- Exercises in one or two planes
- Diffrent grips to enhance hand function
- Straps for the hand to secure the position on the device
- Virtual reality supporting patient motivation and faster therapeutic progress
- Therapy of cognitive disorders: divided attention, memory problem solving, etc. Templates for testing and training programs
- Ability to create user exercises with integrated real-time biofeedback

Benefits:

- Better hand control and accuracy
- Improved motor and movement coordination of the hand
- Proprioceptive reeducation

*** Ask about using CAPRI in home rehabilitation**

Force Plates

Balance evaluation and training devices.

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Safety and efficiency

- Reeducation of posture, balance and load distribution
- For all therapy phases: from acute phase to sport training
- Exercises in different positions, on stable or unstable surfaces

Evidence based medicine - evaluation of the patient before and after therapy

- Analysis of static and dynamic parameters related to balance, on stable and unstable surfaces
- Installed test templates and training protocols with possibility to create and store self-made programs
- Fast and simple information for the therapist about trends in the therapy of the patient

For Whom?
Patients with:

neurological problems like: stroke, Parkinson disease, cerebellum diseases, peripheral neuropathy, epilepsy, etc.

Alfa

Stabilometric platform.

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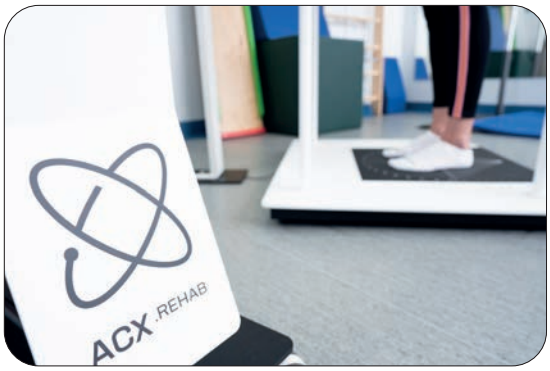
Alfa is a stabilometric platform that allows both: balance assesment and training of neurological and orthopedic patients. This device improves the performance of the patients. Additionally, it accelerates recovery after lower extremity fractures, sprains, endoprosthesis surgery or amputations of lower limbs. Training on the platform provides stimulation of the musculoskeletal and nervous systems primarly, responsible among others for balance control.

Features:

- Analysis of the center of pressure (COP) during tests and training
- Evaluation of static and dynamic parameters involved in maintaining balance on a stable surface
- Romberg and Unterberger test
- Virtual reality supporting patient motivation and therapeutic progress
- Therapy of cognitive disorders: divided attention, memory, and problem solving
- Templates for testing and training programs
- Ability to create user exercises with integrated real-time biofeedback



Gamma

Dynamometric platform.

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Gamma is a modern two-plate dynamographic platform that enables testing and training of neurological and orthopedic patients. Gamma provides professional training for patients and athletes with difficulties with body balance and coorination. Its key advantage is the possibility to freely accomodate the plates to the particular needs of the patient.

Features:

- Analysis of load distribution in the vertical axis
- Evaluation and training of static load distribution
- Dynamic movement test and training: jumping, stepping, squats, sit to stand, etc.
- Extensive data analysis capabilities
- Virtual reality supporting patient motivation and improving the therapeutic progress
- Therapy of cognitive disorders like: divided attention, memory, problem solving, etc.
- Templates for testing and training programs
- Ability to create user exercises with integrated real-time biofeedback

Sigma

Balance platform.

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Sigma is a device for therapy of balance and proprioception on unstable surfaces. It is possible to train in standing and sitting position. Sigma is designed for training different groups of people, from sportsmen to patients on weheelchairs.

Features:

- Classic proprioceptive training
- Active balance and stability evaluation
- Exercises in one or two planes
- Exercises in standing (both or single leg) or sitting (pelvis or feet)
- Unilateral and bilateral exercises of the lower or upper limbs
- Virtual reality supporting patient motivation and improving the therapeutic progress
- Therapy of cognitive disorders: divided attention, memory, problem solving, etc.
- Templates for testing and training programs
- Ability to create user exercises with integrated real-time biofeedback

*PODIUM WITH HANDRAILS IS AN ADDITIONAL ACCESSORY

FUNCTIONAL TRAINING WITH ELASTIC RESISTANCE DEVICES

Therapy for neuromuscular disabilities.

Features:

- Devices for training upper and lower extremities
- Evaluation of range of motion, maximal strength and movement accuracy
- Safe type of resistance - increases proportionally to the range of motion (slight resistance in the initial phase of the movement, evenly increasing in subsequent phases of the exercise)
- Exercises performed in closed or open kinematic chain
- Dynamic and static exercises
- Concentric, eccentric, isometric and plyometric training with crucial parameters adjusted by the therapist
- For all therapy phases: from early rehabilitation to advanced training
- Implemented test templates and training
- Implemented test templates and training protocols with possibility to create and store self-made programs
- Provides fast and simple data for therapist regarding trends in therapy of the patient

For Whom?

- Patients with neurological problems (eg. Stroke, Parkinson disease, cerebellum diseases, perpheral neuropathy, epilepsy, etc.)
- Patients with Orthopedical disorders (injuries, fractures, traumas, osteoarthritis, spine, lower extremities and pelvis disorders)
- Children
- Elderly people
- Post-injury atheltes returning to their sport
- Cardiological patients

Why?

- Strength, endurance, range of motion and coordination training
- Improved joint stabilization through proprioceptive reeducation
- Better muscle coordination and joints stability
- Improve cognitive abilities

Jupiter

Lower extremities.

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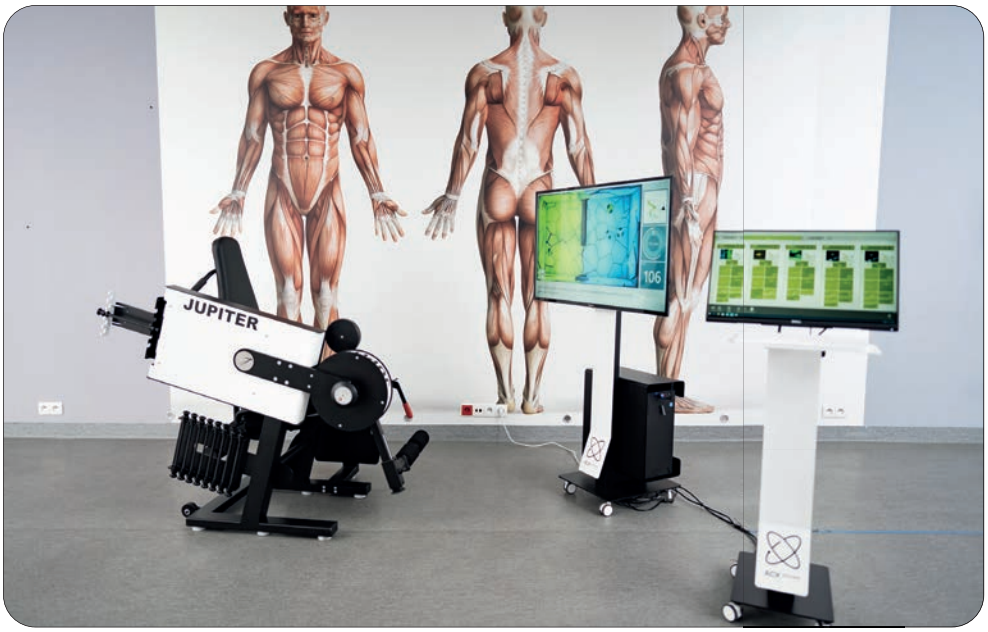
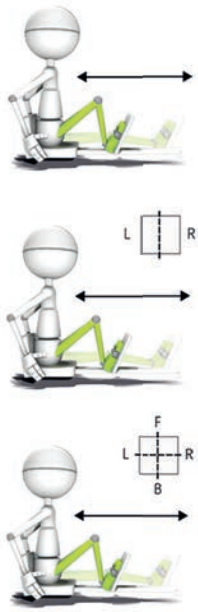
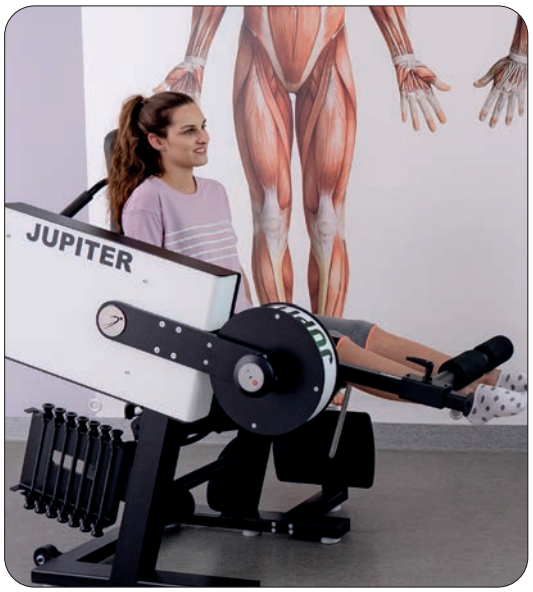




Jupiter is designed for efficient rehabilitation of the knee joint. The device works in open kinematic chain which is focuses on specific and isolated exercises of agonist and synergistic muscles (biceps and hamstring muscles) of lower extremities.

Features:

- Evaluation and training of range of motion
- Evaluation of maximal strength
- Dynamic and isometric exrcises
- Comparison of flexor and extensor muscle strength and left to right leg parameters
- Virtual reality supporting patient motivation and improving the therapeutic progress
- Therapy of cognitive disorders: divided attention, memory, problem solving, etc.
- Templates for testing and training programs
- Ability to create user exercises with integrated real-time biofeedback



Benefits:

- Increased range of motion through active movements
- Increased muscle strength and endurance
- Improved stabilization of joints by proprioceptive reeducation
- Improved muscle coordination
- Balanced effort between flexors and extensors

Telko

Lower extremities.

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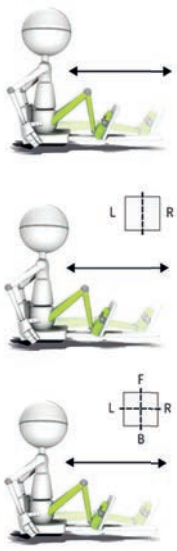
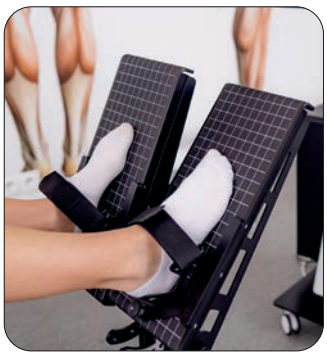


Telko is used for the rehabilitation and training of the lower extremities in a closed kinematic chain. focusing the therapy on functional movements, joint stability, coordination and dynamic neuromuscular control. Telko allows to work multi-joint (hip, knee, ankles). The Device has integrated in the footrest a two-plate dynamographic platform that extends the training with load distribution and coordination exercises for the hip, knee, and ankles.

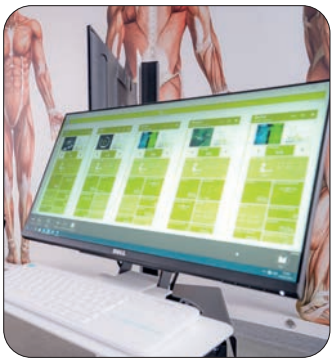
Features:

- Evaluation and training of range of motion
- Dynamic and isometric exercises
- Evaluation and training of load distributionw
- Possibility to work with one or two legs



Benefits:

- Increased range of motion through active movements
- Greater muscle strength and endurance
- Improved stabilization of joints by proprioceptive reeducation
- Enhanced muslce coordination
- Load distribution training in sitting position (for acute patients)



Mini Tensor

Lower and upper extremities.

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Mini Tensor is a small, portable and multifunctional device for therapy of the trunk, lower and upper extremities in closed kinematic chain.

Features:

- Measurement of the range of motion and strength
- Dynamic exercises: concentric and eccentric
- Possibility to work unilaterally or bilaterally
- Ability to exercise in multiple positions

Benefits:

- Increased range of motion through active movements
- Increased muscle strength and endurance
- Improved stabilization of joints by proprioceptive reeducation
- Improved muscle coordination

Cubito

Upper extremities.

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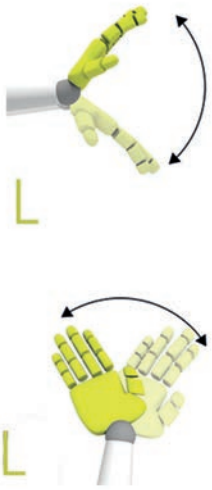

Cubito is used for the rehabilitation and training of the forearm and wrist. It is designed to work with elastic resistance elements. Their most important advantage is to generating a slight resistance in the initial phase of the movement, evenly increasing in subsequent phases of the exercise.

Features:

- Evaluation and training of range of motion
- Dynamic exercises and movement coordination
- Virtual reality supporting patient motivation and faster therapeutic progress
- Therapy of cognitive disorders like: divided attention, memory and problem solving
- Templates for testing and training programs
- Ability to create user exercises with integrated real-time biofeedback

Benefits:

- Increased range of motion through active movements
- Increased muscle strength and endurance
- Improved stabilization of joints by proprioceptive reeducation
- Improved muscle coordination

Vectis

Upper extremities.

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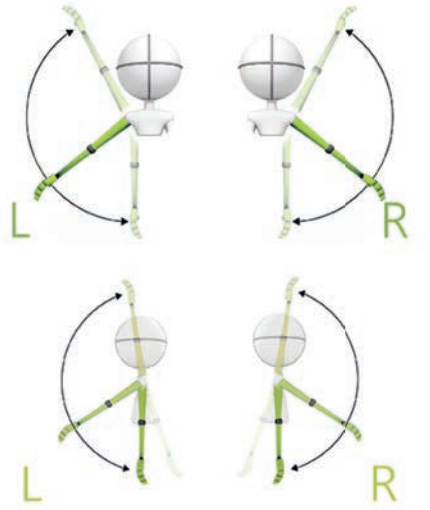

Vectis is designed for an enhanced rehabilitation of the shoulder joint. It works in open kinematic chain which focuses on specific, isolated exercises of agonist and synergistic muscles of upper extremities. It is used for therapy of frozen shoulder, osteoarthritis, tendon or ligament inflammations and rotator cuff dysfunctions.

Features:

- Evaluation and training of range of motion
- Evaluation of maximal strength
- Dynamic and isometric exrcises
- Comparison of flexor and extensor muscle strength and left to right arm parameters
- Virtual reality supporting patient motivation and faster therapeutic progress
- Therapy of cognitive disorders such as: divided attention, memory and problem solving
- Templates for testing and training programs
- Ability to create user exercises with integrated real-time biofeedback

Benefits:

- Increased range of motion through active movements
- Increased muscle strength and endurance
- Improved stabilization of joints by proprioceptive reeducation
- Improved muscle coordination

Vectis Mini

Upper extremities.

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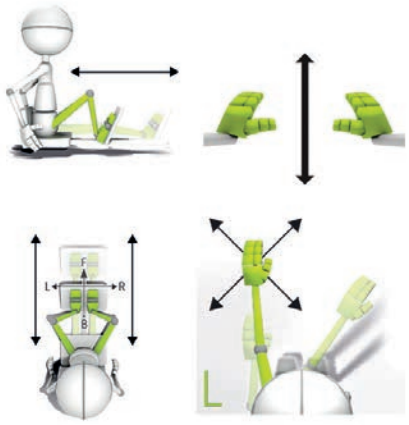


Vectis Mini is used for the rehabilitation and training of the shoulder joints. It is used for therapy of rotator cuff dysfunctions, frozen shoulder, osteoarthritis and tendon or ligament inflammations.

Features:

- Evaluation and training of range of motion
- Dynamic exercises and movement coordination
- Virtual reality supporting patient motivation and faster therapeutic progress
- Therapy of cognitive disorders such as: divided attention, memory and problem solving
- Templates for testing and training programs
- Ability to create user exercises with integrated real-time biofeedback
- Ability to adapt the level of difficulty of the exercises to the current needs of the patient

Benefits:

- Increased range of motion through active movements
- Increased muscle strength and endurance
- Improved stabilization of the joints by proprioceptive reeducation
- Improved muscle coordination

VAST.Rehab full body tracking

VAST.Rehab full body tracking is the perfect example of modern technology allowing physiotherapists to work with any group of patients. Depth cameras allows accurate full body motion capture in real time without the need to attach any sensors to the body of the patient. The software works with patients in starting positions and patients in specific movements, engaging selected body segments, in many starting position.

Enhance postural control and stability through targeted virtual reality exercises that challenge and develop dynamic balance.

Strengthen memory and recall abilities with engaging virtual exercises that challenge patients to remember and reproduce sequences, patterns, or locations.

Build muscle strength and endurance with progressive resistance exercises tailored to each patient's ability and exercise goals.

Improve the patients attention span and ocus through interactive virtual tasks that require sustained concentration and selective attention.

Increase joint mobility and flexibility through guided stretching and range-of-motion exercises in immersive virtual environments.

Enhance decision-making, planning and organization skills with virtual exercises that simulate complex, real-life situations.

Improve walking patterns and functional mobility with specialized virtual reality therapy that simulate real-world situations and provide immediate feedback.

Foster critical thinking and problem-solving abilities with virtual tasks that require patients to analyze and evaluate information, make decisions, and overcome obstacles.

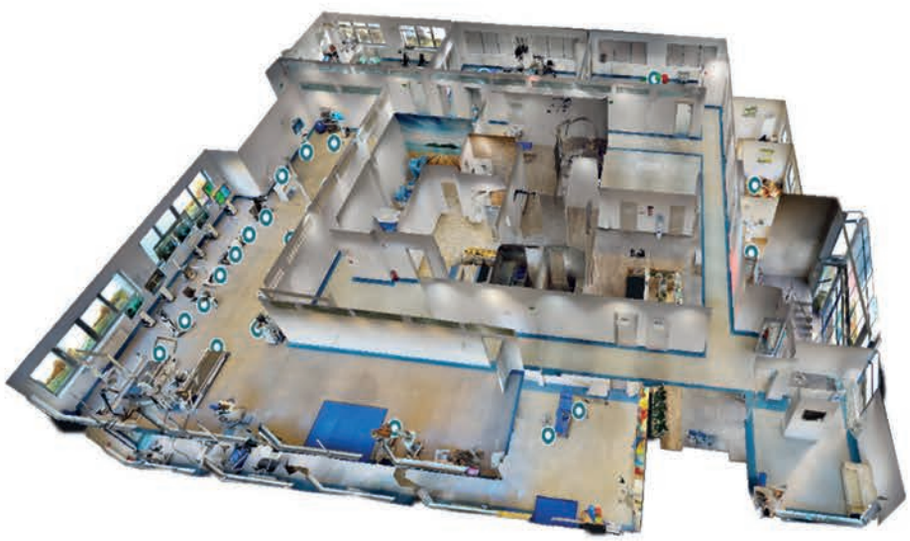
Develop and improvef fine and gross motor skills through engaging virtual reality exercises that challenge and enhance hand-eye coordination and whole-body movement.

Develop spatial orientation and navigation skills through the immersive experience of virtual environments that challenge patients to navigate and interact with their surroundings.

Let’s go for a walk!

Are you looking for simple and efficient rehabilitation equipment?
Would you like to equip a rehab center with complete solution for physiotherapy?
Do you need some new idea to get more patients or simplify your daily work?

Take a short walk with us through a real rehabilitation center to see:



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P_ +48 32 40 10 350
M_ export@technomex.pl
W_ technomex.eu

A_ PHU Technomex Sp. z o.o.
ul. Szparagowa 15,
44-141 Gliwice
POLAND

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