INNOWALK PRO

Enhance your rehabilitation strategies

Unleash potential!





Get the most out of therapy time

In physical rehabilitation, various therapeutic methods help a person restore or maintain functions due to diagnosis-related symptoms, illness, injury or post-surgical conditions.

Whether it is in-patient or out-patient rehabilitation, the main goals are to safeguard body function and structure, and to enable activity and participation in everyday life for children, youth and adults with disabilities (who.int/classifications/icf/).

Intensity of training is critical for success. Rehabilitation professionals often experience lack of time and absence of affordable and sufficient equipment to deliver services addressing the needs of people with severe disabilities.

> The Innowalk Pro is a robotic rehabilitation trainer allowing patients with severe disabilities to stand and move by offering exceptional flexibility in adjustment and support.



Empower your physical therapy methods

The Innowalk Pro enables early mobilisation with high intensity in an upright or semi upright position. This flexible device allows patients to change their postural position safely and comfortably from sitting to standing to moving.

Recent research within the field of neurology shows that task-specific repetitive approach has proved to be the most effective motor learning concept.

The Innowalk Pro gives more people access to assisted, guided and repetitive movement - without hands-on presence of physiotherapists. It frees up your time to provide additional valuable activities with the patients.



Deliver high intensity training for everyone



The robotic rehabilitation trainer is easily and quickly adjusted to individual sizes and different needs.

By using the Innowalk Pro, both ambulatory and non-ambulatory patients can conduct movement with weightbearing in a safe and well-supported way. Patients even have the option to do the training in a sitting position if required.

A wide range of accessories enable the use of the Innowalk Pro further to accommodate any functional level.

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Who can benefit from training in the Innowalk?

Patients with:

- Traumatic Injuries
- Spinal cord injury
- Diseases and Congenital Conditions, such as:
 - Cerebral palsy
 - Muscular dystrophy
 - Multiple sclerosis
 - Spina bifida
 - ALS (Lou Gehrig's Disease)
 - Arthritis
 - Parkinson's disease
 - Essential tremor

THE THERAPEUTIC BENEFITS OF PHYSICAL ACTIVITY AND TRAINING

The International Classification of Functioning, Disability, and Health (ICF) describes health and health-related conditions for children and adults. The ICF framework is used for collaborative rehabilitation and goal-setting with focus on person-centered care. It consists of two parts: Functioning and Disability and Contextual Factors.

Functioning and Disability includes:

- Body Functions and Structures-describes actual anatomy and physiology/psychology of the human body.
- Activity and Participation—describes the person's functional status, including communication, mobility, interpersonal interactions, self-care, learning, applying knowledge, etc.

Together with other therapy methods, the Innowalk Pro helps improve body function and structure and thus enables activity and participation in everyday life.



Primary benefits:



STRETCHING OF MUSCLES AND JOINTS prevents contractures and deformities, as well as reducing the muscle tone

he muscle tone

Secondary benefits:



SKIN INTEGRITY issues are prevented through pressure relief and increased blood flow



ACTIVE STANDING POSISION is physical activity

BONE MINERAL DENSITY

is developed through good

nutrition, weight-bearing and

the use of the muscles



RESPIRATION & CIRCULATION are positively affected during vertical position and activity



MENTAL FUNCTION is positively affected in an active standing position





GASTROINTESTINAL FUNCTION is stimulated in active standing position

A PROFITABLE SOLUTION FOR YOUR REHABILITATION CLINIC

Since the Innowalk Pro frees up therapy time in your clinic, you can increase the number of patients enrolled in physiotherapy without adding more therapists.

In addition, we provide affordable, transparent and flexible financial solutions, whether you want to rent or purchase the Innowalk Pro. With us you only need one partner.

Here is an example of how Innowalk Pro generates profit with a rental solution. The break-even point demonstrates that you don't need many treatment sessions with the Innowalk Pro per day before this is a highly profitable business.

Break even point is 2 treatments pr working day

Leasing price pr. mounth	1 10
No. of working days pr. month	2
Estimated price per treatment	4
Minutes pr. treatment (including adjustment)	4
Working hours pr. day	
Theorethical number of treatments pr. day	1
Expected no. of treatments pr. day	
Estimated income pr. month	6 40
Theorethical possible profit	8 50
Estimated profit	5 30
Break even no. of treatments / day	

9 000 8 000 7 000 6 000 5 000 4 000 3 000 2 000 1 000

Theoretical possible profit

Recent research demonstrates profound health benefits for people with CP, when sedentary behavior is replaced with light physical activity. (Verschuren et al., 2016; Katzmarzyk, 2010)





Estimated profit

CASE STUDY AT KRANKENHAUS RUMMELSBERG PROVES POSITIVE IMPACT

The German hospital, Krankenhaus Rummelsberg outside Nürnberg has used the Innowalk Pro as part of their rehabilitation service after minimally invasive single-event multi-level surgery.

In a study with 32 children and adolescents, the Innowalk Pro was used as post-operative movement therapy. Early mobilisation training was carried out 30 minutes, twice a day, for 3,5 weeks in average (2-5 weeks).

Objective

The participating children and adolescents had musculoskeletal changes relating to spastic motor disturbances. The goal was to improve joint mobility, reduce spasticity, and facilitate standing, sitting and walking.

ACHIEVING YOUR GOALS

We advice, share knowledge, and provide good training to assure safe and comfortable use and optimal outcome of the Innowalk Pro at your facility.

We make sure your team is qualified and confident in operating the Innowalk Pro in your daily rehabilitation work.



Results

Chief Physician for the Department of Paediatric Orthopaedics at the clinic, Prof.h.c. Dr. Walter Michael Strobl, headed the study.

The early mobilization group had significantly less pain, significantly improved muscle strength as well as gross motor function, and significantly improved GAS outcome.

The baseline for further treatment in the outpatient department and rehabilitation centre was thus significantly more favourable.

Development in those children and adolescences who continued using the Innowalk therapy for several months at home was assessed to be particularly positive.

The study shows that use
of robotically assisted early
mobilisation after the specified
neuro-orthopaedic operations,
reduces post-operative pain and
loss of strength, compared to
conventional procedures.

DR. WALTER MICHAEL STROBL

Source: Strobl, Walter & Senghaas, Patricia & Schuseil, Jobst & Kollaschinski, Markus. (2016). *Early mobilisation by locomotion therapy following minimally invasive multi-level surgery for children and young adults with cerebral palsy.*

PRODUCT SIZE RANGE AND TECHNICAL INFORMATION

OPTIONAL CLINICAL PACKAGE

Optional Clinical package

Small

Large

Clinical package contains arm-movement handles, shoulder-straps, table, neck support and hand fixation gloves. The clinical package comes in two sizes; Small and Large.



Innowalk Pro Small

User height: 100-145 cm User weight: max 65 kg

Measurements:	
Width	63 cm
Length	95 cm
Height	140 cm
Weight	120 kg



Art.no.

302297

302296



Innowalk Pro Large

User height: 145-190 cm User weight: max 95 kg

Measurements:

Width	76 cm
Length	150 cm
Height	210 cm
Weight	130 kg

Standard product configuration now includes the new Feedback Monitoring System. Measures number of steps, time, speed, distance and generates reports.



Arm-movement handles

function

• Stimulates arm and hand

· Increased training effect



· Enables use of armmovement handles





Available accessories	Art.no.
Transport trolley Small	302252
Transport trolley Large	302253



• Upper body support



Table

- For playing and activities Social interaction with others
- Support of hands and forearms for better stability
- · Increases the feeling of security



Neck support

- Provides extra support for the head
- Sizes: S, M and L.

MEET Wilhelm!

Wilhelm is a 71 year old paralysed man with an incomplete spinal cord injury. He can sit independently, but has lost the ability to stand and walk. His tonus is normal.

The main goal for rehabilitation treatment has been to deal with a life in wheelchair and how to handle all practical aspects of the paralysis. At the NIB Köln clinic he has been introduced to assistive devices, such as the Innowalk Pro, in search for aids providing most benefits to his challenges of being sedentary. Wilhelm uses the Innowalk Pro four times a week in training sessions of 30 minutes each.

Through training, Wilhelm receives a lot of sensory feedback from his feet. The symmetrical reciprocal movement allows for better physiological adjustment of his legs.

JULIAN BREUER PHYSIOTHERAPIST NIB GMBH & CO. KG



MEET Stefanie!

Stefanie is 45 years old and has been diagnosed with MS. The illness has progressed and now she uses a rollator for mobility and has high tone in the adductors. She sits independently and stands briefly without support when dressing.

During the past 6 years Stefanie has not been able to use her right leg due to a nerve transection. Her physiotherapist has looked for an assistive device to contribute to reducing tone, muscle building, activation of extentors and maintain existing abilities.



Stefanie has improved her trunk stabilization and has optimized the muscle tone of her legs. This allows her to walk safely and longer with a rollator.

> JULIAN BREUER PHYSIOTHERAPIST NIB GMBH & CO. KG

MEET Tim!

Tim is an 18 years old young man diagnosed with CP, GMFCS level V. He sits and can also walk with support, and has mild contractures in his legs, but suffers from pronounced spasticity.

After a femur fracture the physiotherapist suggested to use the Innowalk Pro in order to exercise with weightbearing in an upright position and strengthen his muscles. The main goal with the training was to maintain functional skills.

Tim is exercising 3 times a week for 30 minutes each session at the Physical therapy centre NIB in Köln.

The outcome has been very positive with increased muscle strength, tone regulation, and a more stable sitting posture, making it easier for him to transfer.

> Tim is really happy when he can go in the Innowalk Pro.

JULIAN BREUER PHYSIOTHERAPIST NIB GMBH & CO. KG



MEET Samuel!

Samuel Koch is a 31 year old actor, who was seriously injured after jumping over moving cars on the live German TV show *Wetten, dass..*? Samuel is now paralyzed from the neck down.

Training has always been an important part of his life, and Samuel has tried a lot of therapy during his years of rehabilitation. After being introduced to the Innowalk Pro at a clinic in Cologne, he is now using it every day as exercise. I have never used a device that provides such an intensive training of my body, - I am actually out of breath. What a feeling!

SAMUEL KOCH ACTOR

For more information, please contact us

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