

tyromotion

PABLO® Sensor-based assessment and therapy tool

TYROTHERAPY GET BETTER. EVERY DAY.

PABLO® IS ENGINEERED, DESIGNED, AND MANUFACTURED IN AUSTRIA.

PABLO®

Extend your possibilities as a therapist with PABLO®! This multifunctional rehabilitation device enhances classical therapy exercises with biofeedback, objective assessments, and gamification. Use PABLO® to train deficits in movement and force control, accuracy, aim, coordination, trunk control and balance. One device, endless possibilities.

Why PABLO®?

- One device for the rehabilitation of upper and lower extremities trunk, and neck
- Objective assessment, monitoring, and reporting system
- Minimal movements become visible

- Wireless, portable rehabilitation device
- Functional and ADL-training with biofeedback
- Accessories to extend the therapy application spectrum





































PABLO® Therapy



Short setup time



Wireless application



Unilateral and bilateral training



Symmetric and asymmetric exercises



Hands-on interaction



For children and adults



Functional training with integration of real life objects



Gamification

PABLO® COMPONENTS



PABLO® Handsensor

Measurement of hand grasp and release force and of various finger grips, as well as movements in all three motion axes.



PABLO® Multiball

Therapy with focus on wrist movements, exercising pronation/ supination, flexion/extension, and ulnar/radial abduction.



PABLO® Multiboard

Supported training of postural control, elbow flexion and extension as well as mobilization in different directions of the upper extremity.



PABLO® Motionsensor

Flexible straps allow application on various parts of the body enabling precise movement detection.



PABLO® Charging Station

Wireless charging of Motionsensors and Handsensor

TYROSTATION

THE PERFECT MATCH!

The TYROSTATION is home to all components of PABLO® and provides ergonomic adaptability for patients.

- Height-adaptable therapy table and stool
- · Safe storage and structured application environment

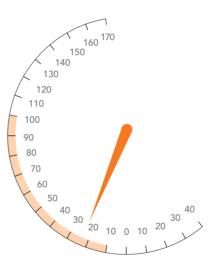


ASSESSMENT AND THERAPY

- · Cylinder grip / Extension
- Pinch grip
- · Three-point grip
- · Lateral grip
- Interdigital grip
- Force Control Index
- Wrist Extension Flexion
- Supination Pronation
- · Ulnar / Radial Deviation
- Elbow Extension Flexion
- Shoulder Abduction Adduction
- Shoulder Extension Flexion
- · Gait Assessment (PABLO® Lower Extremity)



Ext. 0 - 10 - 100 Flex.



Measure, train, and improve activities of daily living with PABLO®.







PABLO® LOWER EXTREMITY

PABLO® Lower Extremity is an IMU-based gait analysis and training system. It precisely assesses gait parameters that provide essential information for treatment of walking impairments. The simple and non-obtrusive application makes the package complete.

Why PABLO® Lower Extremity?

- · Gait assessment and training
- Objective measurement of gait pattern
- Lightweight, wireless, portable

- Quick and simple setup
- No restriction in movement
- Easy integration into daily therapy

Wearable inertial measurement units (IMUs) have the potential to enable non-restrictive and accurate gait assessment under different pathological gait patterns.1

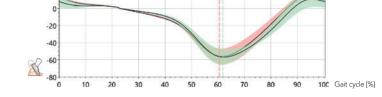


Basic and Advanced report:

- Spatiotemporal parameters
- Gait phase durations
- Angles related to the dorsiplantarflexion and pronationsupination of the foot
- Lateral deviation and vertical lift

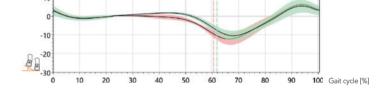
Foot/floor sagittal angle (degrees)





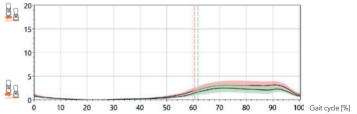
Foot/floor frontal angle (degrees)





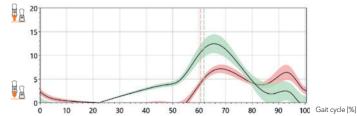
Lateral devitation (cm)





Vertical lift (cm)

















ABILITY BALANCE















✓ ACTIVE





Components of **TyroTherapy:**



Intensity



Dos



Motivation

TYROTHERAPY

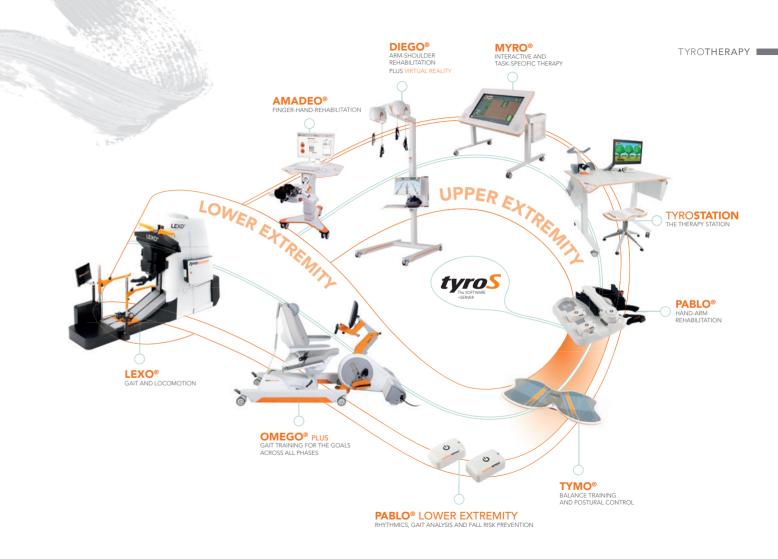
TyroS

The TyroS software has been developed in close collaboration with therapists. This proprietary software is the heart of the Tyromotion technology and combines devices,

clinical expertise, and therapeutic games. The software is a sophisticated, therapeutic system that helps to challenge and encourage patients.

- · Highly intensive, focused and motivated training
- · Enforces motor learning principles
- · Combines motor and cognitive therapy
- · Intuitive and easy to learn
- · Visualizes therapy progress

¹ Laidig D, Jocham AJ, Guggenberger B, Adamer K, Fischer M, Seel T. Calibration-Free Gait Assessment by Foot-Worn Inertial Sensors. Front Digit Health. 2021 Nov 4; 3:736418



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TYROMOTION



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