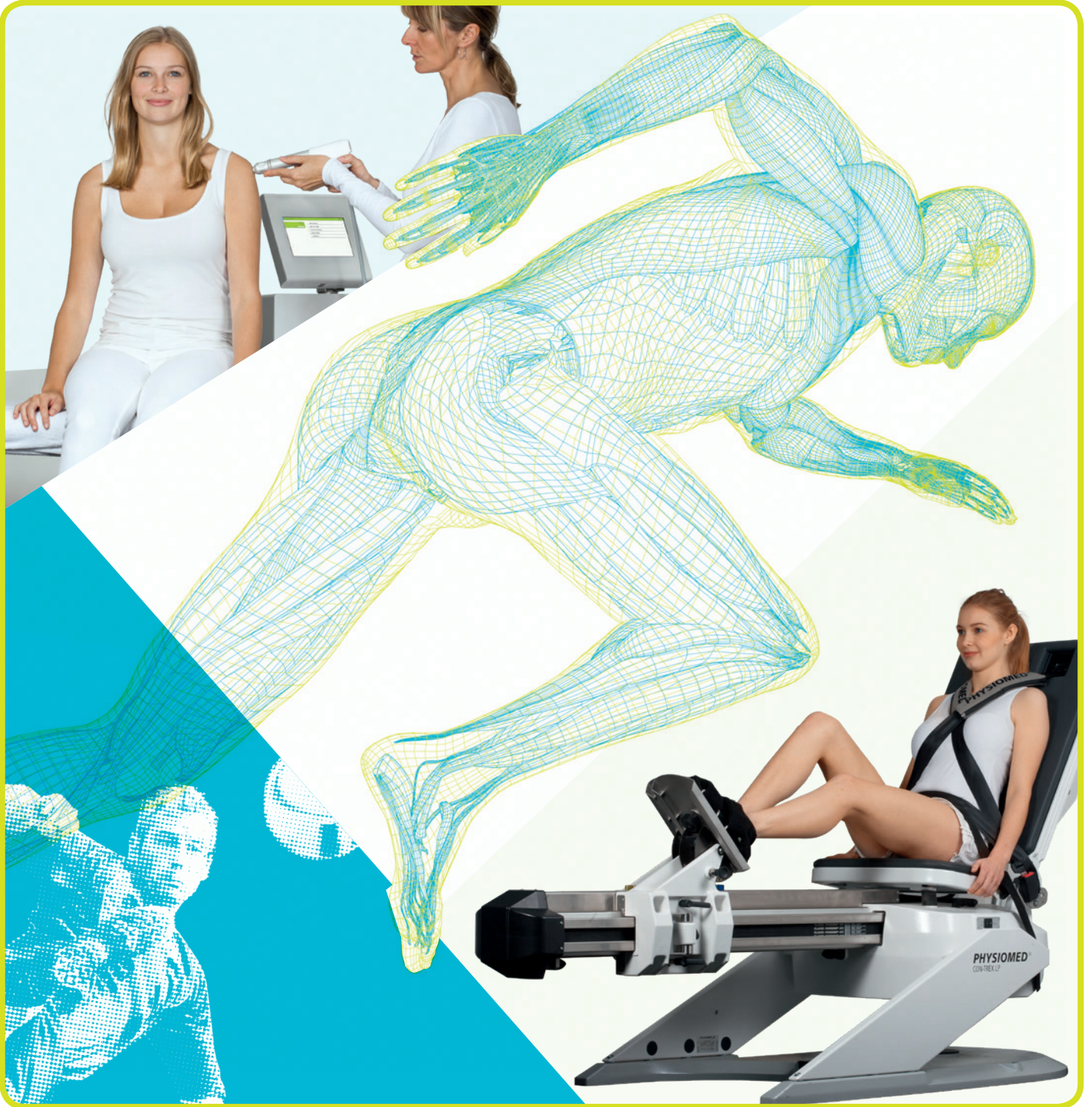


# Unique Diagnostic and Treatment Systems in Rehab & Sports Medicine



TECHNOLOGY FOR THERAPY

**PHYSIOMED**®

“We use the CON-TREX® LP in our scientific intervention studies to determine changes in the functional capacity with respect to strength and power of the entire leg extensor and flexor chain. The measurement is highly relevant because it represents the physiological multiple joint movement pattern. Further the system is robust and extremely precise.”

Dr. Simon von Stengel  
Institut of Medical Physics, University Erlangen, Germany

# CON-TREX®:

## neuromuscular diagnostic and therapy systems for biomechanical testing, training and therapy

Main applications:

### Performance Diagnostics:

Testing of muscle strength/endurance to determine the muscular status especially in the framework of screening or assessing the suitability of athletes to specific sport events.

### Rehabilitation Monitoring:

Testing of athletes following injury and during rehabilitation, for assessing residual deficiency in several parameters with the aim to return to the initial state (pre-screen before injury obligatory).

### Injury Prevention:

The potential risk of injury can be determined on the basis of various isokinetic parameters.

“Due to its high precision, the CON-TREX® MJ allows us an extremely effective progress monitoring of rehabilitation until the athletes are completely recovered.”

Pepe Silva Moreno,  
trainer of the ALBA BERLIN Basketball Team



Bennet Hundt from ALBA BERLIN Basketball Team  
training after a fracture of his metatarsus

### CON-TREX® MJ

Multijoint module for testing and training the major joints



### CON-TREX® TP

Isokinetic back module for trunk flexor and extensor muscles



### CON-TREX® LP

Isokinetic leg press for testing and training the lower limbs in closed kinetic chain



...an additional positive effect of deep oscillation [in the treatment of fresh lateral ligament injuries of the ankle] is observed in terms of reduction of edema and hematoma, detumescence, pain and inflammation.

Aliyev R.M. (2012)

"Deep Oscillation can not only be used in the therapy of injuries and diseases. Our study results show that it also has potential as accompanying training measure to significantly impact regeneration and restitution of neuromuscular performance after football matches or training."

Dr. Simon von Stengel  
Institut of Medical Physics, University Erlangen, Germany

# Deep Oscillation:

unique, patented, non-invasive and atraumatic therapy technique based on biologically effective oscillations using electrostatic attraction and friction

Main applications:

## Traumatic Injury and Overstraining:

Deep oscillation has an anti-inflammatory and oedema-reducing effect, directly stimulates self-mobilization in areas relieved of pain and thus enables an earlier return to active forms of therapy and training.

## Pre- und Postoperative Therapy:

Swellings and oedemas can be relieved considerably faster than with conventional therapies. Healing processes are stimulated and accelerated, local inflammation is inhibited and pain is reduced over a sustained period.

## Training Aftercare and Performance Stabilization:

Deep oscillation is known for its direct effect against

microtrauma (muscle aches). Roughage and cell remains are removed quickly through the treatment. This promotes a more effective nutritional supply to the muscle cells, thus accelerating the restoration to optimal performance. Regeneration times in the systematic training process can thus be reduced.



Physiotherapist Henrik Lange doing decongestive MLD supported by deep oscillation after training



German handball national team used deep oscillation during the World Championship in 2007 and won the event

"With deep oscillation we were able to significantly shorten our regeneration times."

Henrik Lange, physiotherapist of the ALBA BERLIN Basketball Team

DOT (deep oscillation therapy) is beneficial in the treatment of LE (lateral epicondylalgia) and may further enhance the benefit from local steroid injection.

O'Brien C.P., Watson A. (2016)

## DEEP OSCILLATION® Evident

Two-channel deep oscillation unit for professional use



## DEEP OSCILLATION® Personal

Deep oscillation unit for mobile use or to continue treatment at home



## IONOSON-DO-Evident

The new benchmark in electro-, ultrasound and simultaneous therapy with deep oscillation in the fourth channel







### Computer-supported test and training systems (CTT)

Evaluation and training of sensorimotor capacity, intermuscular coordination and maximum strength for the spine and trunk



### PHYSIORUN

Treadmills for fitness, rehabilitation and gait training/therapy.

optionally upgradable:

» robowalk®

» CPET



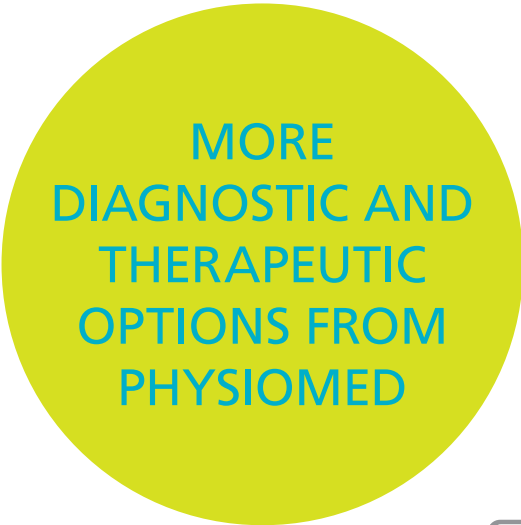
### Electrotherapy

Strengthening of the muscles after immobilisation and to support muscle training



### Ultrasound therapy

Treatments after injuries to the ligaments, muscles, pain syndromes and inflammation



### MAGCELL®

Portable Electrode-free electrotherapy  
Pulsating electromagnetic fields for the relief of osteoarthritis pain and sensory neurotoxicities



### Shockwave therapy

Pain therapy and trigger point treatment accelerate the body's self-healing powers



### Cryotherapy

Cold-air therapy is based on surface cooling and local reduction of the tissue temperature

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