



Zimmer

enPuls*Pro*

A multitude of latest studies shows positive results in the application of radial shockwave therapy. This is caused by activation of body own reactive systems from mechanical stimulation by a fast wavefront passing through the tissue.

The initially supposed working hypothesis of necessary destructive micro-cavitations with following regeneration processes is nowadays considered obsolete. Studies show highly reliable and very quickly achieved positive therapy results at energy levels far below any destruction threshold.

The observed tissue and metabolic reactions are in general:

- increased metabolism
- altered cellular membrane permeability
- enhanced cellular structure
- improvement of tensile stability
- increased metabolism by acceleration of gen activity
- release of substance P (growth and pain inhibiting hormones)

enPulsPro

Radial shockwave therapy system with ballistic, high-energy pulses.

For treatment of biological tissues and structures in various pathologies and medical conditions.

Unique, easy-to-use system offering shockwave therapy access to all therapists.



Unique and powerful technology

Innovative, high-tech ballistic system with electromagnetic drive system

Principle

A heavy, electromagnetically accelerated, ballistic projectile transfers its kinetic energy to a transmitter head in the handpiece.

The kinetic energy is transformed into impact energy in the applicator head. Shockwaves result and spread out radially from the contact area into the desired treatment region of the body.

Unique enPulsPro "Softshot" shockwave

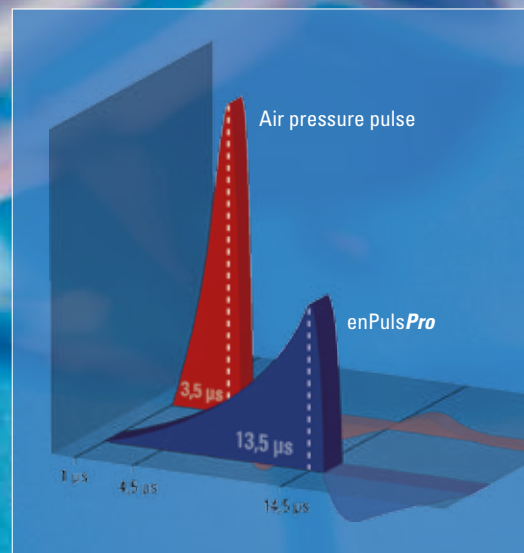
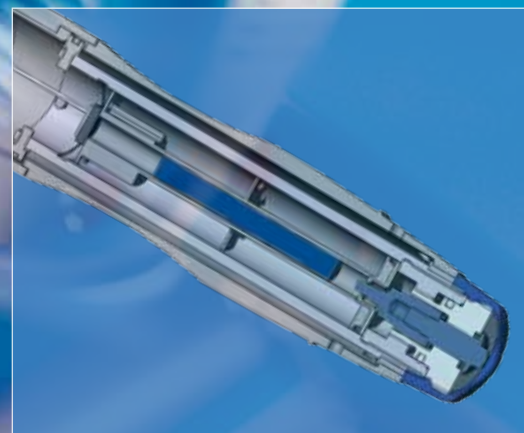
enPulsPro creates unique shockwave pulses by using a projectile 5 times heavier than standard air pressure systems and a reduced final velocity upon contact with the applicator.

Through the force of the accelerator and the mass of the projectile, the pulses carry the same amount of mechanical energy but are more comfortable for the patient than comparative shockwave systems

The longer pulse rise time maintains the energy without the need for unpleasant high peak pressure amplitudes.

The lower peak and longer rise time minimize the stinging, painful sensation normally related to this therapy. Increased patient compliance results with easier treatments at higher energy levels.

Less pain, same energy – enPulsPro softshot technology.



Special Features

- Ports for two handpieces
- Integrated VAS scale
- Intuitive touch screen operation
- Energy levels from 60 to 185 mJ (equivalent 1- 5 bar)
- Pulse frequencies from 1 to 22 Hz
- Burst mode for Trigger Point Treatment
- Positive/Negative shockwave counter with value preset
- Indication menu with preset treatment protocols
- SD-card for memory, update and service
- Efficient energy transfer
- Less maintenance, longer lifetime
- Unique, very comfortable shockwave pulse (softshot)



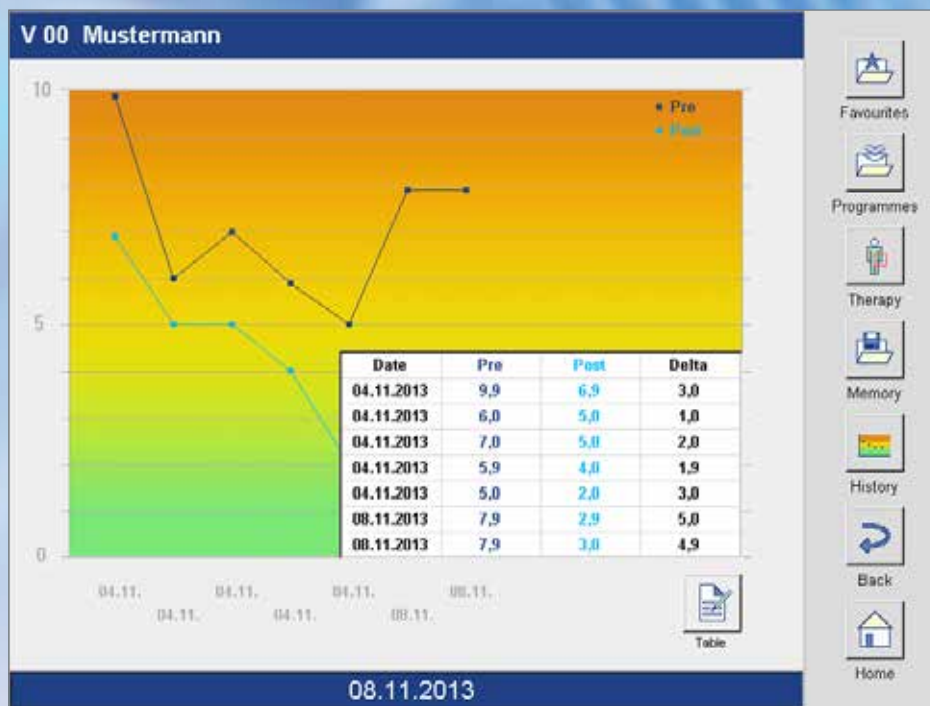
A heavy, ergonomic aluminium handpiece, with high inertia to perform optimal energy transfer to the patient, provides optimal protection against vibrations to the hands of the therapist.

A variety of applicator heads with different sizes and shapes is available. Quick and easy exchangeable, without any tools, they provide an optimal adaptation for the therapy.

Higher treatment comfort and time saving by the opportunity to connect two handpieces with different applicators at the same time.

Ease of work

Designed for maximum functionality and ease of application



Large colour touch screen for one-touch operation. Direct access to all necessary parameters of treatment, including a list of indications with guidelines and extensive memory for individually adjusted programmes.

Preset therapy protocols for the major indications with extensive help function, including pictures of the treatment area.

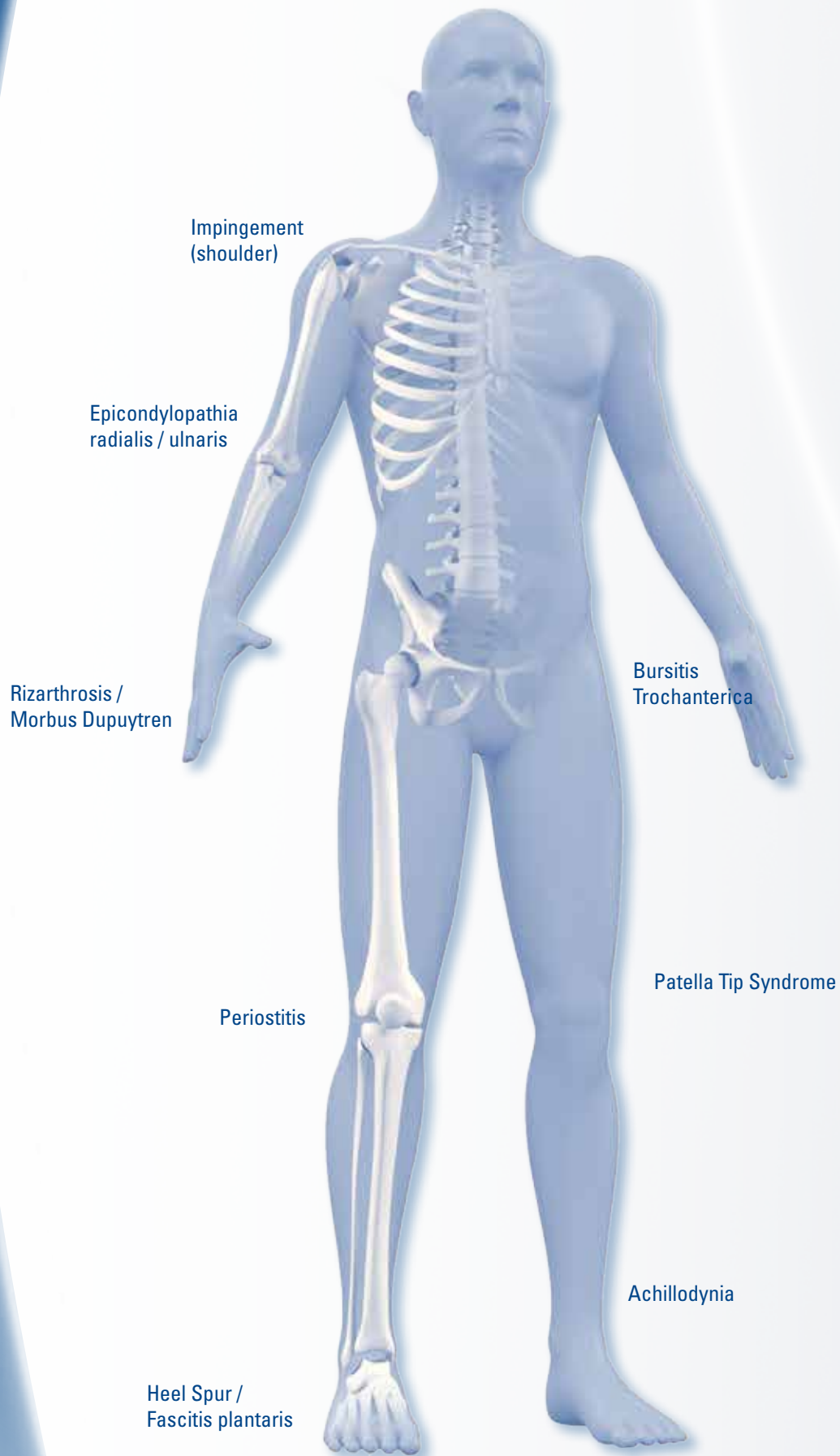
The assessment of pain intensity with the integrated VAS scale provides a precise and traceable view on the progress of the therapy to therapist and patient.



Successful Therapy

Shockwave therapy – simple application, quick result

- Insertiontendinopathies
- Myofascial Pain Syndromes
- Activated Triggerpoints





Easy Application

Minimum treatment preparation and maximum efficacy.

The average application consists of one or two treatment sessions weekly for a total of 6 - 10 treatment sessions.

A treatment session applies in average 2000 pulses and takes about 10 minutes.

Especially useful for:

- Orthopaedic treatment
- Orthopaedic rehabilitation
- Sport rehabilitation
- Traumatology
- Physiotherapy
- Osteopathy



enPulsPro



Picture shows optional accessories

Technical Data / Options enPulsPro

Technology	Compressor free ballistic radial shockwave therapy-system with electromagnetic generator as projectile accelerator
Power Levels / Energy	Energy levels from 60 to 185 mJ adjustable precisely in steps of 10 mJ
Modes	Frequencies from 1 to 22 Hz 3 Burst modes (4 / 8 / 12 pulses)
Programmes	7 preset programmes, adjustable
Protocols	More than 25 illustrated preset treatment recommendations
Controls	12" Colour touch-screen for all software operations Rotary control for energy level and for frequency Handpiece operation with multi-directional footswitch
Memory / Update	SD-card for indication menu memory, favourites and adapted programmes (120 places), Firmware-Update
Dimensions	200 x 350 x 300 mm (L/W/H)
Weight	3.8 kg (without handpiece)
Shockwave Applicator Hand Piece	Ergonomic, with anodized aluminium casing and fan cooling
Generator	Electromagnetic, integrated
Dimensions	23 cm length, 5 cm diameter (max.)
Weight	approx 0.85 kg (without cable)
Lifetime	Warranty of minimum 2,000,000 shocks
Maintenance	Only necessary when performance drops, not obligatory at a certain amount of shocks. Exchange of generator by service
Applicator heads	Diameters of 6 / 15 (2 pieces) / 25 mm Tool-free exchange possibility Lifetime 150,000 shocks per applicator head
Power Consumption	~100–240 V / 50/60 Hz, max. 250 VA
Conformity	IEC/EN 60601-1 and 60601-1-2
Optional	- Trolley SysCart incl. holder for 2 handpieces and lotion - Tray for applicators - 2 nd Handpiece - Swivel base
Transport / Storage	-10°C to + 50°C / 700 hPa to 1060 hPa / 10% to 90% rel. humidity, not condensing

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