

Radialpet™

Radial Wave Therapy (RWT) for Multi Orthopedic Applications



Introduction

Radialpet™ by Medispec is a radial wave therapy (RWT) system designed to deliver extracorporeal radial wave energy generated through an electromagnetic projectile mechanism.

Developed based on extensive theoretical knowledge and broad clinical experience in Extracorporeal Shock Wave Therapy (ESWT) and Radial Wave Therapy (RWT), Radialpet™ is designed for the treatment of superficial chronic orthopedic conditions. It is recognized as a reliable and effective solution within orthopedic and rehabilitation practices.

Radialpet™ provides a safe, non-invasive, and rapid therapeutic option for resistant or non-responsive superficial orthopedic pathologies, supporting meaningful improvement in pain reduction and functional outcomes without surgical intervention.

Clinical Applications

Radialpet™ is indicated for a wide range of superficial orthopedic conditions, including but not limited to:

Joint disorders:

- Hip arthritis (coxarthrosis)
- Knee arthritis (gonarthrosis)
- Elbow arthritis (cubarthrosis)



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Tendinopathies: Biceps tendon tendinopathy

Other superficial tendinopathies:

- Osteoarthritis
- Hip dysplasia and hip osteoarthritis
- Knee osteoarthritis
- Elbow osteoarthritis
- Shoulder osteoarthritis

Key Benefits

Plug and play operation

No special electrical infrastructure required.

No compressor dependency

No air compressor, air filters, or water drainage, reducing maintenance requirements.

User-friendly design

Intuitive operation with short training time.

Reusable applicator system

Only tips require replacement, reducing ongoing consumable costs.

Portable and compact

Easily moved between treatment rooms and stored when not in use.

Cost-effective ownership

Low maintenance requirements and high system reliability.

Simple and comfortable operation

Designed for consistent, stable, and reliable treatments.

Technology Advantage

Unlike pneumatic radial wave devices that rely on compressors, high-voltage power sources, and ongoing maintenance procedures, Radialpet™ operates using an electromagnetic, non-compressor-based mechanism. This design simplifies operation, reduces maintenance needs, and enhances system portability.

Additionally, the absence of air pressure contributes to improved handpiece stability and enables efficient coverage of larger treatment areas. This results in more controlled energy delivery and improved patient comfort during treatment sessions.



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Radial wave devices comparison

Device Parameters	Medispec Radialpet	Storz Masterpuls MP100	Storz D-ACTOR® 100 ultra
Energy Source	Electromagnetic	Pneumatic	Pneumatic
Maximum Energy Density	0.43 mJ / mm ²	0.22 mJ/mm ²	
Compressor Pressure	None	1-4 bar	max. 5 bar
Tip Size	6, 15 & 25 mm	6 to 15 mm	
Burst mode	yes		
Compressor	No	Yes	Yes
Measurements	360x160x300mm	500x600x500mm*	426x144x340mm (without touch screen)
Hand Carry	Yes 365x170x330mm	No Big & requires a cart for moving	Optional 585x840x585mm
Weight	3.8 kg	62 kg	10.5 kg