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# Intelect<sup>®</sup>

**RPW**

Shockwave by Chattanooga<sup>™</sup>



### Chattanooga & DJO

Chattanooga is the world's largest manufacturer of rehabilitation equipment for treating musculoskeletal, neurological and soft tissue disorders. For over six decades, Chattanooga has set a benchmark for leadership, reliability and excellence. Our Intellect® line of products contributes to better treatment outcomes in hospitals, clinics and home settings worldwide. We lead the physiotherapy industry by example, through continuous innovation, providing real-world solutions for clinicians and their patients.

Chattanooga is a brand of DJO Incorporated. DJO is a leading global developer, manufacturer and distributor of high-quality medical devices that provides solutions for musculoskeletal health, vascular health and pain management. The company's products address the continuum of patient care from injury prevention to rehabilitation after surgery, injury or from degenerative disease. This is achieved by combining the synergies of many rehabilitation companies under one umbrella. DJO is the 'House of Quality Brands'.

### Radial Pressure Waves

Therapeutic shockwaves were introduced as a medical treatment for eliminating kidney stones without causing skin injury, over 20 years ago. Some of the side effects discovered while using this treatment, were the bone healing and accelerated tissue healing results on the areas submitted to shockwave treatment. Today the use of radial shockwaves or Radial Pressures Waves (RPW) has been successfully extended to other therapeutic and wellness applications such as:

- shoulder calcifications
- insertional tendonitis
- muscle trigger points
- muscle and connective tissue activation
- acupuncture therapy
- cellulite treatment
- body shaping
- lymphatic drainage
- medical massage

Radial Pressure Waves is an excellent non invasive treatment method with very few negative side effects, for indications that are normally very difficult to treat. For these indications we now know that RPW is a treatment method that reduces pain as well as improves function and quality of life.

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### Physical effects of Radial Pressure Waves

Radial pressure waves offer a non invasive treatment solution for long term insertion and soft tissue pathologies. Local treatment of the affected area will enhance and reset the healing pattern. Today there are several working hypothesis for the physical effects of radial pressure waves:

**Pain reduction:** The patient experiences a reduction of pain, explained by the Gate Control theory. Intensive pulses from the transmitter into the tissue, create a strong nociceptor activation of the A- $\beta$  fibers, which affect interneurons that inhibit the transmission of the pain signals.

**Increased metabolism:** Shockwaves influence the tissue on a cellular level. The chemical environment of the cells is affected by free radicals promoting the release of pain and inflammatory inhibiting substances.

**Revascularisation:** Repeated shockwaves to the affected area create a revascularisation effect, with the new blood flow in the area promoting tissue healing and regeneration.

**Reduced muscle tone:** The "vicious circle", as well as the strong pathological association between pain and muscle tone, will be broken and lead to restoring a normalised muscular tone.



**Radial Pressure Wave therapy is indicated for:**

**Myofascial Trigger Points (MTrP)**

- Localising and deactivating trigger points

**Activation of Muscle and Connective Tissue**

- Increasing circulation
- Pulse vibration massage

**Disorder of Tendon Insertions**

- Plantar Fasciitis, heel pain, or heel spur
- Tendinosis calcarea/supraspinatus-tendon
- Radial and ulnar humeral epicondylitis
- Achillodynia
- Retropatellar pain syndrome
- Tibial edge syndrome
- Proximal Iliotibial band friction syndrome/trochanteric
- Insertional tendonitis

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# Intellect® RPW



Chattanooga is proud to introduce their latest innovation, the Intellect® RPW. Decades of experience in rehabilitation device manufacturing has resulted in a radial pressure wave unit that is revolutionary in design, style and application. Intellect® RPW comes with an abundance of features not found on other radial pressure wave units in the market. Despite the list of impressive features, the user interface is remarkably intuitive and simple to use. Chattanooga has partnered with STORZ MEDICAL AG to develop a radial pressure wave unit with proven cutting-edge technology which establishes Intellect® RPW as the new global standard in radial pressure wave therapy.

## Features

- Full colour LCD touch-screen interface
- State-of-the-art navigation features enable you to access the desired functions at the touch of a finger
- Treatment setup via Quick-link Indications, Clinical Protocols™ or manual adjustment
- 200 user-defined protocol storage slots
- Over 80 clinical protocols on board
- Clinical Resources include:
  - Full colour graphics library of anatomical images and pathologies
  - Hand piece placement images
  - Radial pressure wave rationale
  - Radial pressure wave contraindications
- 2 channels allow connection of 2 hand pieces
- Unique optimal energy level adjustment feature that allows gradual ramping of the intensity during treatment
- Convenient storage platform allows secure and easy access of hand pieces, transmitters and gel
- 360° swivel rotation of interface
- Large storage drawer for storage of clinical supplies
- Multilingual software
- Patient documentation of treatment sessions, pre and post treatment patient pain scales, pain mapping and pain types all captured on Patient Data Cards
- 2 year warranty

Transmitter storage box



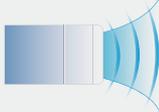
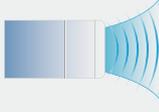
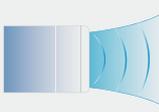
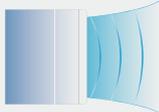
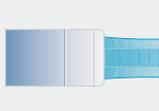
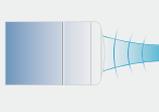
**Intellect®**  
RPW

360° Swivel rotation of interface



**D-ACTOR® Applicator**

The D-ACTOR® applicator can be used with a variety of transmitters for the generation of shockwaves. Each transmitter has its own characteristic effect and area of use. The majority of transmitters generate shockwave, whereas the D20 and D35 transmitters generate both shockwaves and vibrations.

Transmitter	Data	Indications	Energy Flux Density / Penetration depth
	C15, 15 mm, CERAmA-x® ESWT Transmitter Elastic pressure waves	Gel free, elastic pressure wave therapy for all tendinopathies	 0.45 mJ/mm <sup>2</sup> 0 - 40 mm
	R15, 15 mm, EWST Transmitter Radial spreading	Radial pressure wave therapy, all tendinopathies	 0.38 mJ/mm <sup>2</sup> 0 - 40 mm
	D20-S, 20 mm, D-ACTOR® Transmitter Radial pressure waves and vibration pulses	Myofascial trigger therapy, muscle and connective tissue, dissolution of fibrosis, treatment of deep-seated muscles	 0.48 mJ/mm <sup>2</sup> 0 - 50 mm
	D35, 35 mm, D-ACTOR® Transmitter Radial pressure waves and vibration pulses	Myofascial trigger therapy, muscle and connective tissue back muscles, skin elasticity, trigger-diagnosis, dissolution of fibrosis, treatment of deep-seated muscles	 0.46 mJ/mm <sup>2</sup> 0 - 50 mm
	DI15, 15 mm, Deep Impact® Transmitter Energy focused beam	Deep-seated diseases, trigger, chronic conditions, high energy requirements	 0.63 mJ/mm <sup>2</sup> 0 - 60 mm
	F15, 15 mm, Focus-Lens Transmitter Energy focused area	Close to surface pain areas, facial muscles, neck, head, individual triggers	 0.16 mJ/mm <sup>2</sup> 0 - 20 mm

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**D-ACTOR<sup>®</sup> Applicator**

**Applications:**

- Myofascial trigger points
- Other disorders of tendon insertions
- Activation of muscle and connective tissue
- Acupuncture shockwave therapy
- Cellulite treatment (stages I – III)
- Muscle and connective tissue tightening
- Elimination of lymphatic congestion
- Body shaping
- Regulation of muscle tone
- Medical massage

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**V-ACTOR® Applicator**

The V-ACTOR® applicator is an ideal complement to Radial Pressure Wave therapy and contributes to long-lasting treatment results.



**Vibration treatment:**

- Stimulates metabolism and accelerates the elimination of waste products
- Tightens tissue through muscular stimulation
- Improves skin firmness to restore a natural, young appearance
- Offers a relaxing wellness experience

**Applications:**

- Body shaping
- Lymphatic drainage
- Wellness massage
- Muscle and connective tissue activation



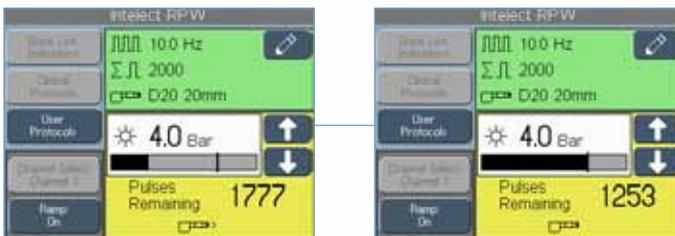
### Easy-to-use Interface

Intellect® RPW incorporates touch screen technology to ensure a high degree of simplicity. The easy-to-use menu-driven user interface guarantees reliable selection of all necessary parameters for treatment set-up as well as during patient treatment. All essential parameters always remain under control.



### Unique optimal energy level adjustment

An automatic ramp-up feature, that allows a gradual increase of the intensity, at the start of the treatment, to provide an automatic and smooth intensity increase in tune with your patient. Patient pain threshold can be recorded and treatment can be managed at the optimal painless energy level.





### Clinical Protocols



### Quick Link Indications



### User Protocols



### Clinical Resources Libraries:

- Anatomical/Pathological Library
- Hand Piece Placement Library
- Radial Pressure Wave Rationale
- Radial Pressure Wave Contraindications
- Patient Pain Profile Information



# Intelect® RPW

## ORDERING INFORMATION:

2082 Intelect® RPW unit - 100 V

2073 Intelect® RPW unit - 120 V

2074 Intelect® RPW unit - 230V

## Standard Accessories:

28700 - Standard accessory kit that includes the following:

- 28699 D-ACTOR® Hand piece applicator
- 28736 Projectile (x3)
- 17638 R15 15 mm ESWT transmitter
- 28724 D20-S D-ACTOR® 20 mm transmitter
- 28737 Sealing set
- 28738 Guide tube (x2)
- 28739 Cleaning brush

4248 - Conductor™ transmission gel 250 ml (8.5 oz) bottle (x1)

27465 - Patient data card (x1)

28668 - User manual on CD

## Optional Accessories:

28725 - D35 D-ACTOR® 35 mm transmitter

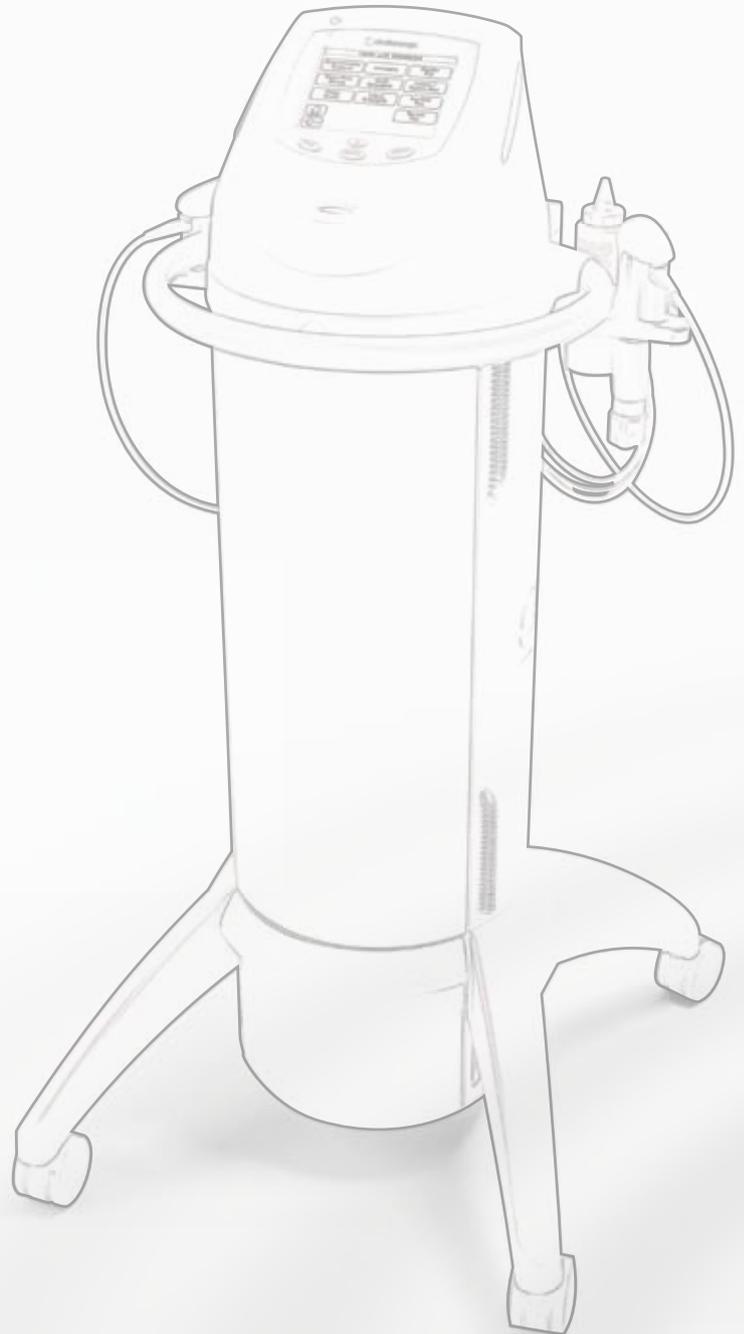
28726 - F15 Focus-Lens 15 mm transmitter

28728 - DI15 Deep Impact® 15 mm transmitter

28729 - C15 CERAmA-x® ESWT 15 mm transmitter

28730 - V-ACTOR® hand piece applicator kit that includes the following:

- 28740 - V25 V-ACTOR® 25 mm vibration transmitter
- 28741 - V40 V-ACTOR® 40 mm vibration transmitter



**TECHNICAL SPECIFICATIONS:**

Mains Power:	100 V ~, 50/60 Hz (Model 2082) 120 V ~, 60 Hz (Model 2073) 230 V ~, 50 Hz (Model 2074)
Power Consumption:	840 VA (Model 2082) 780 VA (Model 2073) 610 VA (Model 2074)
Compressed Air Output:	1.4 - 5 bar
Power Increment Settings :	2 bar
Power Indication:	Maximum and average power
Pulse Amplitude:	Approx. 2 mm at 3 bar, idling (without coupling)
Pulse Width:	Approx. 6 - 12 ms
Pulse Frequency:	0.5 - 21 Hz
Pressure Vessel Volume:	31 l
Mode:	Single or continuous
Fuses:	Two 6.3 A time lag 5 x 20 mm (not user serviceable)
Electrical Class:	CLASS I
Electrical Type:	TYPE B
Regulatory Risk Class:	Ila according to MDD 93/42/EEC

The Intelec® RPW has been designed to meet the requirements of IEC/EN 60601-1, 60601-2-3, 60601-1-2, and 60601-1-4

**Dimensions**

Width:	42 cm (16.5")
Depth:	41 cm (16.14")
Height:	114.3 cm (45")
Standard Weight (with 1 handset):	32.66 kg (72 lbs)