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## Robotic Technology to improve physiotherapy treatment efficiency

### PHYSIOTHERAPY

A solution created by physiotherapists that uses robotic technology to treat musculoskeletal pathologies.

**Industry:** Medical Device

**Our Team:** International and multidisciplinary team of talented engineers, technologists and managers, fully devoted to comply with our mission.

**Carlos Jiménez**  
Managing Director

**Aleksandra Gruskiewicz**  
Associate Public Funding

**Francesco Di Martino**  
Biomedical Engineer

**Samir Nabulsi**  
Technical Director, Robotics Engineer

**Rubén Rodríguez**  
Technical Development, Electronics Engineer

**Pablo Martínez**  
Business Development Consultant

**Hugo Scagnetti**  
Technology- Strategy Advisor

### Business Partner:



**Our Mission:** To develop and promote the use of technologies aiming at improving the healing rates of physiotherapy patients while ensuring the sustainability and increase in efficiency of our clients business.

**Vision:** To become the international leader in high-tech solutions for the physiotherapy sector and provide equal chances of access to quality healthcare services to a wider population of patients.

**Our Values:** Passion – Innovation – Orientation to results – Experience – Leadership – Wellbeing expansion

### Contact Information:

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**A combination of physiotherapy techniques and robotics to improve treatment efficiency:** Lower back pain is the most disabling disease in the world (affecting 80% of the global population). In Europe alone, an estimated number of 44 million workers have musculoskeletal disorders.

Current issues in the physiotherapy sector provide large opportunities for improvement:

<b>Mistreatment</b>	Inability of a physiotherapist to maintain a sustained pressure in a specific area of the patient's body for more than a few minutes.	<b>Patient does not get optimum treatment</b>
<b>Inconsistency</b>	Treatment is highly dependent on physiotherapist's condition: The intensity of the physiotherapist treatment largely depends on the amount of time that he/she has been working on a particular day as well as the number of patients he/she has treated.	<b>Patient has a different experience after each treatment</b>
<b>Inefficiency</b>	Sequential nature of the treatments and loss of time between them: The physiotherapist can only treat one patient at a time and changing between patients results in costly inefficiencies.	<b>Patient waiting time is getting longer</b>

**Our Solution:** Innovative Physiotherapy Robotic system for musculoskeletal pain treatment.

- Adamo Robot system delivers 3–7 bars of safe continuous air pressure throughout the treatment.
- High effectiveness with a constant Pressure + Consistency = Efficiency.
- According to the pathology identified, the physiotherapist will set the points where the treatment will be applied, guaranteeing repetitiveness for this custom treatment conditions in any clinic that has access to the Adamo robot and to the personalized treatment data stored in the cloud.
- Pressure application is scientifically documented as the standard myofascial trigger point physiotherapy method.
- The opportunity to combine robotics with physiotherapy allows us to increase the effectiveness of our service, improving patient healing rates and optimizing time and costs for these treatments.

Thanks to our proprietary software, Adamo will enrich customer treatment data with thermographic measurement and 3D body scan for better patient follow up.

**Target Audiences:** Employees – Casualty – Athletes – Seniors – Wellness.

**Typology of Treatments:** Myofascial trigger points – Muscle contracture – Whiplash injury (cervical sprain) – Back pain – Fibromyalgia – Haemorrhage and bruises.

### One of the most innovative Medical Devices in the world:

- Optimizes productivity
- Improves competitiveness
- Lowers operating costs
- Works 24h/365d
- Reduces waiting lists
- Provides personalized treatment in any part of the world
- Obtains reliable and valid clinical data

### Tested in hospitals and clinics in 2019 with favorable results



Medical certification class IIa (In process)

### Physical Characteristics

- Robotic system measures: Length 128cm x height 154cm and width 68cm.
- Materials: Galvanized sheet structure painted in oven, aluminum, plastics and steel.
- Weight: 195 Kg
- Connectivity: Ethernet + Wifi
- Performance; Power consumption approximately 5.2 Kw for typical use.
- Operational Temperature Range: 0° C to 40° C / 230V/50Hz connections

### Supported by



We are looking for distributors world wide.

Recommended for physiotherapy clinics, sport clinics, hospitals, gyms, hotels, wellness center.