

Rehabilitation Robots Market Shares, Strategies, and Forecasts, Worldwide, 2019 to 2025

<https://marketpublishers.com/r/RB6398C30AAEN.html>

Date: January 2019

Pages: 564

Price: US\$ 4,400.00 (Single User License)

ID: RB6398C30AAEN

Abstracts

The 2019 study has 564 pages, 269 tables and figures. Worldwide Rehabilitation Robot markets are expected to achieve significant growth as robots replace much of the human work in physical therapy.

The robots are steadier, make fewer mistakes, support treatment for longer durations, and decrease the cost of rehabilitation for many conditions. The robots permit a more accurate rehabilitation routine for any specific condition than is possible with human physical therapy in many cases.

Robotics has tremendous ability to reduce disability and lead to better outcomes for patients with stroke. With the use of rehabilitation robots, patient recovery of function is able to be more substantial than what is achieved now. Whereas traditional rehabilitation with a human therapist goes on for a few weeks, people using robots are able to make continued progress in regaining functionality even years after an injury or stroke.

It is a question of cost. While insurance pays for a small amount of rehabilitation needed, generally provided by a human therapist, using a robot is far less costly process, and can be effective over the long term, even without reimbursement. Marketing has a tremendous effect in convincing people that they can achieve improvements from rehabilitation processes even after years of effort.

Rehabilitation robotics devices are used for assisting performance of sensorimotor functions. Devices help arm, hand, leg rehabilitation by supporting repetitive motion that builds neurological pathways to support use of the muscles. Development of different robotic schemes for assisting therapeutic training is innovative.

The team that developed the market research study, “Robotic therapy stimulus of upper limbs provides an example of the excellent motor recovery after stroke that can be achieved using rehabilitation robots.” Lower limb systems and exoskeleton systems provide wheelchair bound patients the ability to get out of a wheelchair

No company dominates the entire rehabilitation robot market sector. The products that work are still emerging as commercial devices. All the products that are now commercially viable are positioned to achieve significant staying power in the market long term, providing those companies that offer them with a possibility for long term leadership position in the market.

Robotic rehabilitation equipment is mostly used in rehabilitation clinical facilities. There is a huge opportunity for launching a homecare equipment market if it is done through sports clubs rather than through clinical facilities. People expect insurance to pay for medical equipment but are willing to spend bundles on sports trainer equipment for the home. Rehabilitation robots can help stroke patients years after an event, so it makes a difference if someone keeps working to improve their functioning.

Vendors will very likely have to develop a strong rehabilitation robotic market presence as these devices evolve a homecare aspect. The expense of nursing home rehabilitation has been very high, limiting the use of rehabilitation to a few weeks or months at the most.

Rehabilitation robots realistically extend the use of automated process for rehabilitation in the home. The availability of affordable devices that improve mobility is not likely to go unnoticed by the sports clubs and the baby boomer generation, now entering the over 65 age group and seeking to maintain lifestyle.

As clinicians realize that more gains can be made by using rehabilitation robots in the home, the pace of acquisitions will likely pick up.

Rehabilitation robot market size at \$641 million in 2018 is expected grow dramatically to reach \$6.4 billion by 2025. Exoskeleton markets will be separate and additive to this market. A separate exoskeleton market will create more growth. Market growth is a result of the effectiveness of robotic treatment of muscle difficulty. The usefulness of the rehabilitation robots is increasing. Doing more sophisticated combinations of exercise have become more feasible as the technology evolves. Patients generally practice 1,000 varied movements per session. With the robots, more sessions are possible.

Companies Profiled

Market Leaders

DJO Global

DIH / Hocoma

Performance Health / Patterson Medical

AlterG

Ekso Bionics

ReWalk Robotics

Myomo

Bionik / Interactive Motion Technologies

Intuitive Surgical

Market Participants

Berkley Robotics and Human Engineering Laboratory

Biodex

Bioness

Catholic University of America

Biodex

Bioness

DJO Global

Fanuc

Focal Meditech

Furniss

Hocoma

Honda Motor

Instead Technologies

Invacare

iRobot

Interactive Motion Technologies (IMT)

InMotion Robots

Interaxon

KDM

Kinova

KLC Services

Medi

MRISAR

Orthocare Innovations

Patterson

ProMed Products Xpress

Reha-Stim

Robotdalen

RSL Steeper

RU Robots

Secom

Sunrise Medical

Touch Bionics

Tyromotion

Key Topics

Rehabilitation Robots

Stroke Protocols

Active Prostheses

Exoskeletons

Robotic Technologies Leverage Neuroplasticity

Wearable Robotics

Strengthen The Upper Extremity

Strengthen The Lower Extremity

Hand Rehabilitation

Physical Therapy Automation

Recovery After Hip Injury

Wrist Rehabilitation

Stroke Rehabilitation

Rehabilitation Robots Software

Hip Rehabilitation

Anti-Gravity Treadmill

Continuous Positive Motion

CPM

Spinal Cord Injury Rehabilitation

Contents

REHABILITATION ROBOTS MARKET SHARES, MARKET STRATEGY, AND MARKET FORECASTS, 2019 TO 2025

Rehabilitation Robot Executive Summary
Rehabilitation Robot Market Driving Forces
Rehabilitation Robots Assistive Devices
Rehabilitation Robots Decrease the Cost of Recovery
Rehabilitation Robot Medical Conditions Treated
Robotic Modules for Disability Therapy
Wearable Robotics for Disability Therapy
Rehabilitation Robots Leverage Neuroplasticity
Rehabilitation Robot Market Shares
Rehabilitation Robot Market Forecasts

1. REHABILITATION ROBOT MARKET DESCRIPTION AND MARKET DYNAMICS

- 1.1 Rehabilitation Robot Market Definition
- 1.2 Rehabilitation Physical Therapy Trends
 - 1.2.1 Therapy Apps
 - 1.2.2 Exoskeleton Suit
 - 1.2.3 Running with Robots
 - 1.2.4 Use of Video Game Technology In PT
 - 1.2.5 Telemedicine Growing Trend In The Physical Therapy
- 1.3 Stroke Rehabilitation
 - 1.3.1 Stroke Protocols
 - 1.3.2 Rehabilitation Medicine: New Therapies in Stroke Rehabilitation
 - 1.3.3 Botulinum Toxin Injections
 - 1.3.4 Constraint Induced Movement Therapy (CIMT)
 - 1.3.5 Dynamic Splinting
 - 1.3.6 Electrical Stimulation
 - 1.3.7 Robotic Therapy Devices
 - 1.3.8 Partial Body Weight-Supported Treadmill
 - 1.3.9 Virtual Reality (including Wii-hab)
 - 1.3.10 Brain Stimulation
 - 1.3.11 Acupuncture
 - 1.3.12 Mental Practice
 - 1.3.13 Mirror Therapy

- 1.3.14 Hyperbaric Oxygen Therapy
- 1.3.15 Evidence-Based Treatment Protocols
- 1.3.16 Home Mobility Exoskeletons
- 1.4 Exoskeleton Able-Bodied Industrial Applications
- 1.5 Restoring Physical Function Through Neuro-Rehabilitation After Stroke
 - 1.5.1 Traumatic Brain Injury Program
 - 1.5.2 Concussion Program
 - 1.5.3 Hospital Stroke Programs Rapid Response to Create Better Outcomes
 - 1.5.4 Stroke Response Process Leverage Protocols that Implement Streamlined Timely Treatment

2. REHABILITATION ROBOT MARKET SHARES AND MARKET FORECASTS

- 2.1 Rehabilitation Robot Market Driving Forces
 - 2.1.1 Rehabilitation Robots Assistive Devices
 - 2.1.2 Rehabilitation Robots Decrease the Cost of Recovery
 - 2.1.3 Rehabilitation Robot Medical Conditions Treated
 - 2.1.4 Robotic Modules for Disability Therapy
 - 2.1.5 Wearable Robotics for Disability Therapy
 - 2.1.6 Rehabilitation Robots Leverage Principles Of Neuroplasticity
- 2.2 Rehabilitation Robot Market Shares
 - 2.2.1 DJO Global Business Activities
 - 2.2.2 AlterG Bionic Leg Customer Base
 - 2.2.3 Myomo
 - 2.2.4 Performance Health / Patterson Medical
 - 2.2.5 DIH International Limited / Hocoma
 - 2.2.6 Bionik Laboratories / Interactive Motion Technologies (IMT)
 - 2.2.7 Hocoma Robotic Rehabilitation
 - 2.2.8 Homoca Helping Patients To Grasp The Initiative And Reach Towards Recovery
 - 2.2.9 Ekso Bionics Robotic Suit Helps Paralyzed Man Walk Again
 - 2.2.10 Rewalk
 - 2.2.11 Karman Xo-202 Standing Wheelchair Power Stand Power Drive
- 2.3 Rehabilitation Robot Market Share Unit Analysis
 - 2.3.1 Medical Rehabilitation Robot Market Analysis
- 2.4 Rehabilitation Robot Market Forecasts
 - 2.4.1 Rehabilitation Robot Unit Shipments
 - 2.4.2 Rehabilitation Robots Market Segments: Lower Extremities, Upper Extremities, Neurological Training, Exoskeleton, Stroke CPM
- 2.5 Rehabilitation Robot And Motorized CPM Equipment

- 2.6 Global Exoskeleton Market
- 2.7 Rehabilitation Robotics Prices
 - 2.7.1 Danniflex 480 Lower Limb CPM Unit
 - 2.7.2 Patterson Kinetec CPM
 - 2.7.3 Chattanooga Atromot
 - 2.7.4 Ekso Bionics
 - 2.7.5 Interaxon Muse
- 2.8 Rehabilitation Robotics Regional Analysis
 - 2.8.1 Ekso Bionics Regional Presence

3. REHABILITATION ROBOTS MARKET METRICS AND DEVICES

- 3.1 Upper and Lower limb Stroke Rehabilitation Devices
 - 3.1.1 Upper Limb Stroke Rehabilitation Devices
- 3.2 Rehabilitation Robot Market Metrics
 - 3.2.1 Types of Conditions and Rehabilitation Treatment by Condition
 - 3.2.2 Clinical Evidence and Reimbursement
 - 3.2.3 Stroke
 - 3.2.4 Early Rehab After Stroke
 - 3.2.5 Multiple Sclerosis
 - 3.2.6 Knee-Replacement Surgery
 - 3.2.7 Medicare Coverage of CPM
 - 3.2.8 Hip
 - 3.2.9 Gait Training
 - 3.2.10 Sports Training
 - 3.2.11 Severe Injury or Amputation
 - 3.2.12 Neurological Disorders
 - 3.2.13 Recovery After Surgery
 - 3.2.14 Conditions with Severe Extremity Pain / Number of Patients
- 3.3 Types of Rehabilitation Robots and Conditions Treated
 - 3.3.1 Gait Training Devices / Unweighting Systems
 - 3.3.2 Euro-Rehabilitation
 - 3.3.3 Prostheses
 - 3.3.4 Motorized Physiotherapy CPM (Continuous Passive Motion), CAM Therapy (Controlled Active Motion) and the Onboard Protocols
 - 3.3.5 Gait Training Devices / Unweighting Systems / Automated Treadmills
 - 3.3.6 Rehabilitation Therapy Robotics
 - 3.3.7 Upper Limb Robotic Rehabilitation
 - 3.3.8 Shoulder Biomechanics

- 3.3.9 Exoskeletons
- 3.3.10 Exoskeleton-Based Rehabilitation
- 3.3.11 End-effectors
- 3.3.12 Mobility Training Level Of Distribution
- 3.3.13 Rehabilitation Robots Cost-Benefit-Considerations
- 3.3.14 Rehabilitation Systems
- 3.3.15 Robotic Therapeutic Stroke Rehabilitation
- 3.4 Disease Incidence and Prevalence Analysis
 - 3.4.1 Aging Of The Population
 - 3.4.2 Chronic Disease Rehabilitation
- 3.5 Service Robots
 - 3.5.1 Next Generation Personal And Service Robotics
 - 3.5.2 Focal Meditech BV Mealtime Support and Stress Reduction: Hand Function
 - 3.5.3 Rehabilitation of Hip Injuries
 - 3.5.4 iRobot / InTouch Health
- 3.6 Neurological Training
 - 3.6.1 Neuro-Rehabilitation
- 3.7 Interaxon
 - 3.7.1 Interaxon Muse: Brainwave Category Biometrics
 - 3.7.2 InteraXon Motivates Brain Activity
 - 3.7.3 Interaxon Muse Improves Response To Stress, Lowers Blood Pressure
 - 3.7.4 Interaxon Muse Gives Self-Control
 - 3.7.5 Interaxon Muse Can Improve Emotional State
 - 3.7.6 Interaxon Muse Extended Use Lasting Results
 - 3.7.7 Interaxon Muse Types of Feedback
- 3.8 Active Prostheses
 - 3.8.1 Neuronal-Device Interfaces
- 3.9 Pererro - Switch | Access | Control
 - 3.9.1 Pererro+
 - 3.9.2 RSL Steeper V3 Myoelectric Hand
- 3.10 Humanware In-Home Rehabilitation
 - 3.10.1 Muscle Memory
- 3.11 Rewalk
- 3.12 Permobil F5 Corpus VS Stand Sequence
- 3.13 Karman Xo-202 Standing Wheelchair Power Stand Power Drive
- 3.14 Berkeley Robotics Laboratory Exoskeletons
- 3.15 Exoskeleton Designed by CAR
- 3.16 CAREX Upper Limb Robotic Exoskeleton
- 3.17 Egto Tech

- 3.17.1 Egto Tech Luna Dynamic Resistance
- 3.17.2 Egto Tech Luna Objective Diagnostics
- 3.18 Motorized Physiotherapy CPM Continuous Passive Motion and Onboard Protocols
 - 3.18.1 Movement Of Synovial Fluid To Allow For Better Diffusion Of Nutrients Into Damaged Cartilage
- 3.19 Global Medical
- 3.20 Furniss Corporation
 - 3.20.1 Furniss Corporation Continuous Passive Motion DC2480 Knee CPM
- 3.21 Danniflex
 - 3.21.1 Danniflex 480 Lower Limb CPM Unit
- 3.22 Rehab-Robotics Company
 - 3.22.1 Rehab-Robotics Hand of Hope
 - 3.22.2 Rehab-Robotics Hand & Arm Training
- 3.23 Bioxtreme
- 3.24 Corbys
 - 3.24.1 Corbys System
- 3.25 Swtotek Motion Maker

4. REHABILITATION ROBOTS TECHNOLOGY

- 4.1 Robotic Actuator Energy
 - 4.1.1 Elastic Actuators
 - 4.1.2 InMotion Robots Technology
- 4.2 Human Motor Error Enhancement Technology
 - 4.2.1 Enhancing a Motor Error Improves Motor Skills
 - 4.2.2 Adaptation to Error Enhancing Forces
 - 4.2.3 Bioxtreme's Error Enhancement Technology Potential Applications
- 4.3 Rehabilitation Robotic Risk Mitigation
- 4.4 Rehabilitation Robot Multi-Factor Solutions
 - 4.4.1 Biometallic Materials Titanium (Ti) and its Alloys
- 4.5 Berkley Robotics and Human Engineering Laboratory
- 4.6 Rehabilitation Robot Automated Technique
 - 4.6.1 InMotion Robots Technology
- 4.7 HEXORR: Hand EXOskeleton Rehabilitation Robot
- 4.8 ARMin: Upper Extremity Robotic Therapy
- 4.9 HandSOME: Hand Spring Operated Movement Enhancer
- 4.10 Cognitive Science
- 4.11 Lopes Gait Rehabilitation Device
- 4.12 Restoration of Sensation To A Paralyzed Man's Arm

4.13 Artificial Muscle

4.14 ReWalk™ Exoskeleton Suit

5. REHABILITATION ROBOT COMPANY PROFILES

5.1 AlterG

5.1.1 AltgerG M320 Anti-Gravity Treadmill

5.1.2 AlterG® Anti-Gravity Treadmill in Action

5.1.3 AlterG: PK100 PowerKnee

5.1.4 AlterG Bionic Leg

5.1.5 Alterg / Tibion Bionic Leg

5.1.6 AlterG Bionic Leg Customer Base

5.1.7 AlterG M300

5.1.8 AlterG M300 Robotic Rehabilitation Treadmill

5.1.9 AlterG M300 Customers

5.2 Aretech

5.3 Berkley Robotics and Human Engineering Laboratory

5.4 Biodex

5.4.1 Biodex Clinical Advantage

5.5 Bioness

5.6 Bionik Laboratories / Interactive Motion Technologies (IMT)

5.6.1 Bionik Laboratories Acquires Interactive Motion Technologies, Inc. (IMT)

5.6.2 Biomarkers Of Motor Recovery

5.6.3 InMotion Robot Medical Conditions Treated

5.6.4 Interactive Motion Technologies (IMT) InMotion ARM™ Software

5.6.5 Bionik Laboratories Fiscal Year 2018 Revenue

5.7 Biodex Unweighting Systems

5.7.1 Biodex BioStep® 2 Semi-Recumbent Elliptical

5.7.2 Biodex BioStep 2 Helps Patients and Their Therapists Achieve Multiple

Rehabilitation Objectives

5.7.3 Older Adults / Preambulation

5.7.4 Cardiac Rehabilitation

5.7.5 Biodex System 4 Pro

5.8 Bioxtreme

5.9 Breg

5.10 Catholic University of America HandSOME Hand Spring Operated Movement Enhancer

5.11 Claflin Rehabilitation Distribution

5.12 DIH International Limited / Hocoma

- 5.12.1 Swiss Hocoma Merges with Hong Kong Based DIH International
- 5.12.2 DIH and Hocoma Synergistic Collaboration
- 5.12.3 Hocoma Partnership With The Slovenian Software Company XLAB
- 5.12.4 Hocoma Andago
- 5.12.5 Hocoma Lokomat Functional Electrical Stimulation
- 5.12.6 Hocoma ArmeoSpring for Stroke Victims
- 5.12.7 Hocoma ArmeoSpring Based On An Ergonomic Arm Exoskeleton
- 5.12.8 Hocoma Armeo®Spring Clinical Success
- 5.12.9 Hocoma Armeo Functional Therapy Of The Upper Extremities
- 5.12.10 Hocoma Armeo®Spring - Functional Arm and Hand Therapy
- 5.12.11 Hocoma Valedo Functional Movement Therapy For Low Back Pain Treatment
- 5.12.12 DIH / Hocoma Revenue
- 5.13 DJO Global
 - 5.13.1 DJO Global Trademarks, Service Marks And Brand Names
 - 5.13.2 DJO Global Business Activities
 - 5.13.3 DJO / Chattanooga
 - 5.13.4 Chattanooga Active-K CPM (Continuous Passive Motion)
 - 5.13.5 DJO Revenue
 - 5.13.6 Third Quarter Highlights
 - 5.13.7 Business Transformation
 - 5.13.8 Sales Results
 - 5.13.9 DJO Global
- 5.14 Ekso Bionics
 - 5.14.1 Ekso Rehabilitation Robotics
 - 5.14.2 Ekso GT
 - 5.14.3 Ekso Bionics HULC Technology Licensed to the Lockheed Martin Corporation
 - 5.14.4 Ekso Bionics Customers
 - 5.14.5 Ekso and Lockheed
 - 5.14.6 Ekso Bionics
 - 5.14.7 Ekso Bionics Wearable Bionic Suit
 - 5.14.8 Ekso Gait Training Exoskeleton Uses
 - 5.14.9 Ekso Bionics Robotic Suit Helps Paralyzed Man Walk Again
 - 5.14.10 Ekso Bionics Revenue
- 5.15 Fanuc - Industrial Robot Automation Systems and Robodrill Machine Centers
- 5.16 Focal Meditech
 - 5.16.1 Focal Meditech BV Collaborating Partners:
- 5.17 Hobart Group / Motorika
 - 5.17.1 Motorika
 - 5.17.2 Hobart Group / MedInvest Group / Motorika

- 5.17.3 Motorika ReoGo
- 5.17.4 Hobart Motorik ReoGo Portable Platform Shoulder, Elbow, And Forearm
- 5.17.5 Motorika ReoAmbulator Innovative Robotic Gait Training System
- 5.17.6 Motorika
- 5.18 Honda Gait Training
 - 5.18.1 Honda Motor ASIMO Humanoid Robot
 - 5.18.2 Honda Motor
 - 5.18.3 Honda Walk Assist
 - 5.18.4 Honda Stride Management Motorized Assist Device
 - 5.18.5 Honda Builds Unique Transportation Exoskeleton Device Market
- 5.19 Instead Technologies
 - 5.19.1 Instead Technologies Services:
 - 5.19.2 Instead Technologies
 - 5.19.3 Instead Technologies RoboTherapist3D and 2D
 - 5.19.4 Instead Technologies RoboTherapist3D
 - 5.19.5 Instead Technologies Ultrasound Breast Volumes Breast Explorer
- 5.20 Interaxon
- 5.21 iRobot
 - 5.21.1 iRobot / InTouch Health
- 5.22 Kinova JACO
- 5.23 KLC Services
- 5.24 Madison Dearborn Partners
- 5.25 Mobility Research
 - 5.25.1 Mobility Research HugN-Go
 - 5.25.2 Mobility Research HugN-Go 350
 - 5.25.3 Mobility Research LiteGait
- 5.26 MossRehab
- 5.27 Myomo
 - 5.27.1 Myomo mPower 1000
 - 5.27.2 Myomo MyoPro Motion G – Elbow-Wrist-Hand Orthosis
 - 5.27.3 MyoPro Myoelectric Orthotics And Prosthetics
 - 5.27.4 Myomo Neuro-Robotic Myoelectric Arm Orthosis System
 - 5.27.5 Myomo EMG
 - 5.27.6 Myomo Brace For Medical Professionals Permits A Paralyzed Individual To Perform Activities Of Daily Living
 - 5.27.7 Myomo Brace For Medical Professionals Permits A Paralyzed Individual To Perform Activities Of Daily Living
 - 5.27.8 Myomo Brace For Medical Professionals Permits A Paralyzed Individual To Perform Activities Of Daily Living

5.27.9 Myomo Brace For Medical Professionals Permits A Paralyzed Individual To Perform Activities Of Daily Living

5.27.10 Myomo Revenue

5.28 Orthocare Innovations

5.28.1 Orthocare Innovations Adaptive Systems™ For Advanced O&P Solutions.

5.28.2 Orthocare Innovations Prosthesis

5.28.3 Orthocare Innovations Edison™ Adaptive Vacuum Suspension System

5.28.4 Orthocare Innovations Edison Adaptive Prosthesis

5.28.5 Orthocare Innovations Intelligent Adaptive Prosthesis

5.28.6 Orthocare Innovations Edison Leg and Ankle

5.28.7 Orthocare Innovations Galileo Connector Technology

5.28.8 Orthocare Innovations Compas

5.29 Performance Health

5.29.1 Performance Health / Paterson Kinetec CPM

5.29.2 Paterson / Kinetec Spectra Knee CPM

5.30 ProMed Products Xpress

5.31 Reha-Stim

5.31.1 Reha-Stim Support Patients In Restoring Arm And Hand Function

5.31.2 Reha-Stim Medtec and YouRehab Merger

5.31.3 Reha-Stim Gait Trainer GT I

5.31.4 Reha-Stim Gait Trainer Target Market

5.31.5 Reha-Stim Support Patients In Restoring And Improving Gait Function

5.32 Rehabilitation Supply

5.33 Rehab-Robotics Company

5.34 ReWalk Robotics

5.34.1 Rewalk Robotics Revenue

5.35 Robotdalen

5.36 RSL Steeper

5.36.1 RSL Steeper Hand Prostheses

5.36.2 RSL Steeper Electronic Assistive Technology Devices for the Home

5.37 R U Robots

5.37.1 RU Robots

5.37.2 RU Robots Sunflower Robot

5.37.3 RU Robots Sophisticated Interactions

5.37.4 RU Robots Care-o-bot

5.38 Secom

5.38.1 Secom Co.Ltd MySpoon

5.38.2 Secom Co.Ltd MySpoon Manual Mode

5.39 Touch Bionics

- 5.39.1 Touch Bionics' i-limb
- 5.39.2 Touch Bionics i-limb Muscle Triggers
- 5.39.3 Touch Bionics I-Limb Methods For Switching Modes
- 5.39.4 Touch Bionics Prostheses
- 5.39.5 Touch Bionics Active Prostheses
- 5.40 Tyromotion GmbH
 - 5.40.1 Tyromotion GmbH Network
 - 5.40.2 Tyromotion Diego - Robotic-assisted arm-rehabilitation
 - 5.40.3 Tyromotion Therapy for Arms and Shoulders
- 5.41 Other Rehabilitation Robot Companies
 - 5.41.1 Additional Rehabilitation Robots
 - 5.41.2 Selected Rehabilitation Equipment Companies
 - 5.41.3 Spinal Cord Treatment Centers in the US

6. REHABILITATION ROBOT VARIATIONS

- 6.1 Automated Process for Rehabilitation Robots
 - 6.1.1 Why Rehabilitation is Essential
 - 6.1.2 Rehabilitation Involves Relearning of Lost Functions
 - 6.2 Continuous Passive Motion CPM Definition
 - 6.3 Robotic Exoskeletons Empower Patient Rehabilitation Achievements
 - 6.3.1 Rehabilitation Options
 - 6.3.2 Rehabilitation Robots Economies Of Scale
 - 6.4 Seizing the Robotics Opportunity
 - 6.4.1 Modular Self-Reconfiguring Robotic Systems
 - 6.5 Public Awareness of Rehabilitation Robotics
 - 6.5.1 Rehabilitation Robotics Centers Of Excellence
 - 6.6 Home Medical Rehabilitation Robots
 - 6.6.1 US Veterans Administration Telemedicine and Domestic Robots
 - 6.6.2 Rehabilitation Robots Provide Intensive Training For Patients And Physical Relief For Therapists
- About The Company
Research Methodology
WinterGreen Research Process
Market Research Study
WinterGreen Research Global Market Intelligence Company

List Of Figures

LIST OF FIGURES

- Figure 1. Rehabilitation Robotics Products Market Driving Factors
- Figure 2. Rehabilitation Robot Market Driving Forces
- Figure 3. Rehabilitation Robot Medical Conditions Treated
- Figure 4. Stroke Rehabilitation Guidelines For Interactive Robotic Therapy
- Figure 5. Extremity Rehabilitation Robot Technology
- Figure 6. Health Care Conditions Treated With Rehabilitation Wearable Robotics
- Figure 7. Robotic Technologies Leverage Neuroplasticity
- Figure 8. Neuro-Rehabilitation Patient Conditions Addressed
- Figure 9. Neuro-Rehabilitation Services
- Figure 10. Stroke Response Process Leverage Protocols Interdisciplinary Team Composition
- Figure 11. Stroke Treatment State-Of-The-Art, Full-Service Stroke Treatment Facilities
- Figure 12. Rehabilitation Robotics Products Market Driving Factors:
- Figure 13. Rehabilitation Robot Tasks
- Figure 14. Rehabilitation Robot Market Driving Forces
- Figure 15. Rehabilitation Robot Medical Conditions Treated
- Figure 16. Stroke Rehabilitation Guidelines For Interactive Robotic Therapy
- Figure 17. Extremity Rehabilitation Robot Technology
- Figure 18. Health Care Conditions Treated With Rehabilitation Wearable Robotics
- Figure 19. Robotic Technologies Leverage Principles Of Neuroplasticity
- Figure 20. Rehabilitation Robot Market Shares, Dollars, Worldwide, 2018
- Figure 21. Rehabilitation Robot Market Shares, Dollars, Worldwide, 2018
- Figure 22. Rehabilitation Therapy Robots Market Participant Descriptions Worldwide, 2018
- Figure 23. DJO Smart Knee Brace
- Figure 24. Hocoma Robotic Rehabilitation Used In Rehabilitation Medicine:
- Figure 25. Homoca Continuum of Rehabilitation
- Figure 26. Karman Xo-202 Standing Wheelchair Power Stand Power Drive
- Figure 27. Rehabilitation Therapy Robots Market Shares, Dollars and Units, Worldwide, 2018
- Figure 28. Rehabilitation Robots Market Forecasts, Dollars, Shipments, Worldwide, 2018-2025
- Figure 29. Rehabilitation Robot Market Forecasts, Dollars, Worldwide, 2018-2025
- Figure 30. Rehabilitation Robot Market Segment Forecasts, Stroke, Paraplegia, Concussion, Multiple Sclerosis, and Cerebral Palsy. Dollars, Worldwide, 2018-2025

- Figure 31. Rehabilitation Robot Market Segment Forecasts, Stroke, Paraplegia, Concussion, Multiple Sclerosis, and Cerebral Palsy. Percent, Worldwide, 2018-2025
- Figure 32. Rehabilitation Robots: Units Shipments, Worldwide, 2018-2025
- Figure 33. Rehabilitation Robot Market Segment Forecasts, Lower Extremities, Upper Extremities, Neurological Training, CPM, Dollars, Worldwide, 2018-2025
- Figure 34. Rehabilitation Robot Market Segment Forecasts, Lower Extremities, Upper Extremities, Neurological Training, CPM, Percent of Units, Worldwide, 2018-2025
- Figure 35. Rehabilitation Robots Market Segments
- Figure 36. Rehabilitation Robot Unit Installed Base Forecasts, Units, Worldwide, 2018-2025
- Figure 37. Rehabilitation Robot Unit Percent Robots per Facility Analysis Forecasts, Units, Worldwide, 2018-2025
- Figure 38. Motorized CPM Stroke Rehabilitation Equipment Market Shares, Unit and Dollars, Worldwide, 2018
- Figure 39. Rehabilitation Robot CPM Market Segments, Worldwide, 2018-2025
- Figure 40. Rehabilitation Robot Market Segment Forecasts, Lower Extremities, Upper Extremities, Neurological Training, CPM, Per Cent of Units, 2018-2025
- Figure 41. Exoskeleton Market Shares, Dollars, Worldwide, 2018
- Figure 42. Chattanooga Continuous Passive Motion
- Figure 43. Rehabilitation Robot Regional Market Segments, Dollars, 2018
- Figure 44. Rehabilitation Robot Regional Market Segments, 2018
- Figure 45. Ekso Bionics Regional Presence
- Figure 46. Selected Upper Limb Stroke Rehabilitation Devices
- Figure 47. U.S. Rehab Patient Demographics
- Figure 48. Market Metrics for Rehab Patients
- Figure 49. Spinal Cord Injuries Causes, Number, Worldwide, 2018
- Figure 50. US Stroke Incidence Numbers
- Figure 51. Chattanooga OptiFlex® 3 Knee Continuous Passive Motion (CPM) Device
- Figure 52. Rehabilitation Robot Categories
- Figure 53. Shoulder Biomechanics Functions
- Figure 54. Physical Therapy Enhances Recovery After Hip Injury
- Figure 55. InTouch Health
- Figure 56. InteraXon Muse Headband
- Figure 57. Interaxon Finely Calibrated Brain Wave Sensors
- Figure 58. InteraXon Measuring Brainwaves
- Figure 59. Lower Limb Prosthetic Designed By The Center For Intelligent Mechatronics
- Figure 60. RSLSteeper Pererro+
- Figure 61. RSLSteeper Pererro+ Key Features:
- Figure 62. RSL Steeper Bebionic's Standard Glove

- Figure 63. RSL Steeper Prosthesis Hand
- Figure 64. Rewalk-Robotics-Personal Support
- Figure 65. Permobil F5 Corpus VS Stand Sequence
- Figure 66. Karman Xo-202 Standing Wheelchair Power Stand Power Drive
- Figure 67. Karman Xo-202 Standing Wheelchair Power Stand Power Drive Features
- Figure 68. Berkeley Robotics Austin
- Figure 69. Motorized Physiotherapy Controlled Mobilization Goals of Phase 1 Rehabilitation
- Figure 70. Continuous Passive Motion (CPM) Device Benefits Following Knee Arthroplasty
- Figure 71. Global Medical CPM device
- Figure 72. Global Medical CPM device Features
- Figure 73. Global Medical Handheld Controller
- Figure 74. Furniss Corporation Model 1800™ Knee CPM
- Figure 75. Furniss Corporation CPM 1800 Features
- Figure 76. Furniss Corporation CP
- Figure 77. Furniss Corporation Phoenix Model 1850 Knee CPM
- Figure 78. Furniss Corporation Continuous Passive Motion DC2480 Knee CPM
- Figure 79. Danniflex 480 Lower Limb CPM Unit
- Figure 80. Danniflex Lower Limb CPM Features
- Figure 81. Rehab-Robotics Company Hand of Hope Therapeutic Device
- Figure 82. Rehab-Robotics Repetitive Training System
- Figure 83. Rehab-Robotics Hand of Hope Movement Control
- Figure 84. Rehab-Robotics Modes Provide Different Levels Of Assistance In Movement Of Patient's Hand
- Figure 85. Rehab-Robotics Different Modes
- Figure 86. Rehab-Robotics Arm Training
- Figure 87. Rehab-Robotics Hand of Hope Modes
- Figure 88. Bioxtreme Robotic Rehabilitation System
- Figure 89. Corbys Rehabilitation Robot
- Figure 90. Corbys System Functions
- Figure 91. Corbys Rehabilitation System
- Figure 92. Corbys Rehabilitation Orthosis Actuation Test Stand
- Figure 93. Corbys Mobile Robotic Gait Rehabilitation System
- Figure 94. Swtotek Leg Orthosis of Motion Maker
- Figure 95. Rehabilitation Robot System Concerns Addressed During System Design
- Figure 96. Rehabilitation Systems Initiate Active Movements
- Figure 97. Methods of Active Initiation of Movements In Robotic Rehabilitation
- Figure 98. Users Find Robots Preferable and More Versatile than Inadequate Human

Trainers

Figure 99. Rehabilitation Robots Software Functions

Figure 100. InMotion Robots Immediate Interactive Response Sets

Figure 101. HEXORR: Hand Exoskeleton Rehabilitation Robot Technology Benefits

Figure 102. HEXORR: Hand Exoskeleton Rehabilitation Robot Technology Monitoring

Figure 103. HEXORR: Hand EXOskeleton Rehabilitation Robot Treatment Benefits

Figure 104. HEXORR: Hand EXOskeleton Rehabilitation Robot Technology Force and Motion Sensor Benefits

Figure 105. Hand Spring Operated Movement Enhancer

Figure 106. Hand Spring Robot Operated Movement Enhancer

Figure 107. AlterG Anti-Gravity Treadmills Features, Built On Differential Air Pressure Technology

Figure 108. AlterG Anti-Gravity Treadmills Target Markets

Figure 109. AlterG Product Positioning

Figure 110. AlterG Anti-Gravity Treadmill Customer Base

Figure 111. AltgerG M320 Anti-Gravity Treadmill

Figure 112. AlterG® Anti-Gravity Treadmill Functions

Figure 113. Alterg Therapy Functions

Figure 114. AlterG: PK100 PowerKnee

Figure 115. AlterG Bionic Neurologic And Orthopedic Therapy Leg

Figure 116. AlterG M300 Robotic Rehabilitation Treadmill

Figure 117. AlterG M300 Robotic Leg, Knee and Thigh Rehabilitation Treadmill259

Figure 118. AlterG Anti-Gravity Treadmill Precise Unweighting Technology Patient Rehabilitation Functions

Figure 119. AlterG Anti-Gravity Treadmill Heals Patient

Figure 120. Selected US Regional AlterG M300 Customer Clusters

Figure 121. Afetech ZeroG Gait & Balance

Figure 122. Aretech Rehabilitation Robot

Figure 123. Berkley Robotics and Human Engineering Laboratory Research Work

Figure 124. Berkley Robotics and Human Engineering Laboratory Research Work

Figure 125. Selected Bionik International Clinical Partners

Figure 126. Interactive Motion Technologies (IMT) InMotion Biomarkers Aid Stroke Recovery

Figure 127. Interactive Motion Technologies (IMT) InMotion Robot Medical Conditions Treated

Figure 128. Interactive Motion Technologies (IMT) InMotion ARM™ Software Functions

Figure 129. Interactive Motion Technologies (IMT) 2D Gravity Compensated Therapy Is More Effective Than 3D Spatial Therapy

Figure 130. Biodex Dynamometer Target Markets

- Figure 131. Biodex BioStep® 2 Semi-Recumbent Elliptical
- Figure 132. Biodex System 4 Pro
- Figure 133. Bioxtreme Robotics Rehabilitation For Cerebral Stroke Or Traumatic Brain Injuries (TBI) On Error Enhancement Technology
- Figure 134. Breg Home Therapy CPM Continuous Passive Motion Practice Kits
- Figure 135. Hocoma Robotic Rehabilitation Used In Rehabilitation Medicine:
- Figure 136. Hocoma Therapy Solutions Treatments
- Figure 137. Hocoma Lokomat Pro
- Figure 138. Hocoma Patient Rehabilitation Conditions Addressed
- Figure 139. Hocoma Robotic Improvements to Rehabilitation
- Figure 140. Hocoma Lokomats Robot
- Figure 141. Hocoma ArmeoSpring for Stroke Victims
- Figure 142. Hocoma ArmeoSpring for Children
- Figure 143. Hocoma Armeo Power Robotic Arm Exoskeleton
- Figure 144. Clinical Example of Patients Using the Hocoma Armeo®Spring
- Figure 145. Hocoma Valedo Functional Lower Back Movement Therapy
- Figure 146. Hocoma Valedo®Motion Low Back Pain Therapy Advantages
- Figure 147. DJO Smart Knee Brace
- Figure 148. DJO Rehabilitation Product Target Markets
- Figure 149. DJO Rehabilitation Product Targets Care Givers
- Figure 150. Chattanooga OptiFlex® Knee Continuous Passive Motion (CPM)
- Figure 151. Chattanooga CPM Unique Features:
- Figure 152. Chattanooga CPM New/Improved Features:
- Figure 153. Chattanooga CPM Standard Features:
- Figure 154. Chattanooga CPM Specifications:
- Figure 155. Chattanooga CPM
- Figure 156. Chattanooga Active-K Functions
- Figure 157. DJO Chattanooga Active-K
- Figure 158. Chattanooga Active-K Motorized Physiotherapy Unit Integration Benefits
- Figure 159. Chattanooga Active-K Motorized Physiotherapy Controlled Mobilization
- Figure 160. Chattanooga Active-K Motorized Physiotherapy CPM (Continuous Passive Motion)
- Figure 161. Chattanooga Active-K Motorized Physiotherapy Controller
- Figure 162. DJO Chattanooga Active-K Features:
- Figure 163. DJO Chattanooga Active-K Features:
- Figure 164. Chattanooga Active-K Motorized Physiotherapy Therapeutic Benefits
- Figure 165. Chattanooga OptiFlex® 3 Elbow Continuous Passive Motion (CPM)339
- Figure 166. Chattanooga OptiFlex® 3 Elbow Continuous Passive Motion (CPM) Specifications:

- Figure 167. Chattanooga OptiFlex® 3 Elbow Continuous Passive Motion (CPM) Flexion
- Figure 168. Ekso Bionics Regional Presence
- Figure 169. Ekso Technology
- Figure 170. Ekso Bionics Gait Training
- Figure 171. Ekso Bionics Gait Training Functions
- Figure 172. Ekso Gait Training Exoskeleton Functions
- Figure 173. Ekso Gait Training Exoskeleton Functions
- Figure 174. Ekso Bionics Step Support System
- Figure 175. Ekso Bionics Operation Modes
- Figure 176. Ekso Bionics Beep Bop: Rethink Robotics' Baxter Model
- Figure 177. Ekso Bionics Bionic Suit
- Figure 178. Ekso Bionics Financial Results
- Figure 179. FOCAL Meditech BV Products:
- Figure 180. Focal Meditech BV Collaborating Partners:
- Figure 181. Motorika ReoGo
- Figure 182. Motorik ReoGo™ Therapist Benefits:
- Figure 183. Motorik ReoGo™ Patient Benefits:
- Figure 184. Motorika ReoAmbulator
- Figure 185. Motorika ReoAmbulator and Gait Training Devices
- Figure 186. Honda Walk assist
- Figure 187. Honda Stride Management
- Figure 188. Honda Walk Assist Device Specifications
- Figure 189. Honda ASIMO
- Figure 190. Honda ASIMO Front Position
- Figure 191. Honda ASIMO Dimensions and Weight
- Figure 192. Honda ASIMO Intelligence Features
- Figure 193. Honda Walk Assist
- Figure 194. Honda Motors Prototype Stride Management Motorized Assist Device
- Figure 195. Instead Technologies Research:
- Figure 196. Instead Technologies Consultancy Services:
- Figure 197. Instead Technologies Advantages of RoboTherapist3D Therapy:
- Figure 198. Instead Technologies RoboTherapist 3D RT3D Arm
- Figure 199. Instead Technologies RoboTherapist 3D RT3D Cup
- Figure 200. Instead Technologies RT3D Hand
- Figure 201. Instead Technologies RoboTherapist 3D RT3D Ring Structure
- Figure 202. Instead Technologies Ultrasound Breast Volumes. BreastExplorer
- Figure 203. Instead Technologies Ultrasound Breast Volumes Breast Explorer Handheld Device
- Figure 204. Instead Technologies Ultrasound Breast Volumes Breast Explorer Screen

Display

- Figure 205. iRobot / InTouch Health RP-VITA
- Figure 206. iRobot / InTouch Health RP-VITA
- Figure 207. Kinova Robot Specifications
- Figure 208. Kinova Robot Features
- Figure 209. Mobility Research LiteGait Device
- Figure 210. Mobility Research HugN-Go 350
- Figure 211. Mobility Research HugN-Go 350 Supported Ambulation Device
- Figure 212. Mobility Research LiteGait Solution for Gait Therapy
- Figure 213. Mobility Research LiteGait Advanced Solutions For Gait Therapy
- Figure 214. Myomo MyoPro Motion G – Elbow-Wrist-Hand Orthosi
- Figure 215. MyoPro Motion-G Elbow-Wrist-Hand Orthosis Benefits
- Figure 216. Myopro Motion-G Clinical Criteria
- Figure 217. Myomo Mpower 1000 Indications
- Figure 218. Myomo mPower 1000 Contraindications
- Figure 219. Myomo Mpower 1000 Indications
- Figure 220. Myomo mPower 1000 Contraindications
- Figure 221. Myomo Mpower 1000 Indications
- Figure 222. Myomo mPower 1000 Contraindications
- Figure 223. Myomo Mpower 1000 Indications
- Figure 224. Myomo mPower 1000 Contraindications
- Figure 225. Myomo Revenue
- Figure 226. Orthocare Innovations Prosthesis
- Figure 227. Orthocare Innovations Edison Prosthesis Ankle and Foot
- Figure 228. Orthocare Innovations Edison Leg and Ankle
- Figure 229. Orthocare Innovations Prosthetic Foot That Adjusts Automatically
- Figure 230. Orthocare Innovations
- Figure 231. Paterson Kinetec Knee CPM
- Figure 232. Paterson Kinetec Spectra Knee CPM Features:
- Figure 233. Paterson Kinetec Spectra Knee CPM Treatment Modes
- Figure 234. Reha-Stim Gait Trainer GT I
- Figure 235. Reha-Stim Gait Trainer Improves The Patient Ability To Walk Through Continuous Practice
- Figure 236. ReWalker
- Figure 237. Rewalk Robotics Revenue
- Figure 238. RUR Key Market Areas For Robotic Technologies
- Figure 239. RU Robots Core Technologies And Competencies
- Figure 240. RU Robots Advanced Robotics
- Figure 241. RU Robots Sophisticated Interactions

- Figure 242. RU Robots Care-o-bot Large Service Robot
- Figure 243. Secom Co.Ltd MySpoon Manual and Semi-Automatic Mode
- Figure 244. Secom Co.Ltd MySpoon Automatic Mode
- Figure 245. Secom Co.Ltd MySpoon Features in Semi-Automatic Mode
- Figure 246. Secom Co.Ltd MySpoon Automatic Mode
- Figure 247. Touch Bionics Prosthetic Technologies
- Figure 248. Touch Bionics' i-limb Functions
- Figure 249. Touch Bionics i-limb Muscle Triggers
- Figure 250. Touch Bionics Quick Grips
- Figure 251. Touch Bionics Prostheses
- Figure 252. Touch Bionics Active Prostheses
- Figure 253. Touch Bionics Active prostheses
- Figure 254. Touch Bionics Products
- Figure 255. Tyromotion GmbH Employee Group
- Figure 256. Tyromotion GmbH Pablo®Plus System Strengthens The Upper Extremity Hand, Arm And Wrist Functions
- Figure 257. Tyromotion Network
- Figure 258. Tyromotion Bilateral 3D Arm Robot And Virtual Reality Glasses
- Figure 259. Tyromotion Virtual Reality Therapy Delivers 3D Training
- Figure 260. Tyromotion Virtual Reality Therapy 3D Training
- Figure 261. Tyromotion Diego
- Figure 262. Advantages of Rehabilitation Robot Therapy with Tyromotion DIEGO
- Figure 263. Robotic Rehabilitation Devices Automated Process Benefits
- Figure 264. Robotic Rehabilitation Devices Emerging Technologies
- Figure 265. Robotic Rehabilitation Wearable Devices Benefits
- Figure 266. Rehabilitation Involves Relearning Lost Function
- Figure 267. Rehabilitation Lost Function Relearning Initiatives
- Figure 268. CPM Functions:
- Figure 269. CPM Use Indications

I would like to order

Product name: Rehabilitation Robots Market Shares, Strategies, and Forecasts, Worldwide, 2019 to 2025

Product link: <https://marketpublishers.com/r/RB6398C30AAEN.html>

Price: US\$ 4,400.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/RB6398C30AAEN.html>