

Medical Equipment General Catalog



Hiwin Technologies upholds the ideas of integrating global resources and sustaining innovation in order to seek the well-being of mankind, and finds its place in the medical industry, with hopes to meet the health care needs with engineering methods, and to reduce costs taking advantage of being a mechanical manufacturing company, so that the groups in need will obtain medical resources more easily. Currently the development for the prototypes of the robotic gait training machine, robotic endoscope holder and shoulder elbow rehabilitation robot have been completed and are in the pre-marketing testing phase.

High Speed
High Precision
Multifunctional Integration
Ecology First
Humanistic Technology

HIWIN TECHNOLOGIES CORP.

No. 7, Jingke Road,
Taichung Precision Machinery Park,
Taichung 40852, Taiwan
Tel : +886-4-23594510
Fax : +886-4-23594420
www.hiwin.tw
business@hiwin.tw

Subsidiaries & R&D Centers

HIWIN GmbH
www.hiwin.de

HIWIN SCHWEIZ
www.hiwin.ch

HIWIN Korea
www.hiwin.kr

HIWIN JAPAN
www.hiwin.co.jp

HIWIN FRANCE
www.hiwin.fr

Mega-Fabs Motion Systems
www.mega-fabs.com

HIWIN USA
www.hiwin.com

HIWIN Srl
www.hiwin.it

HIWIN s.r.o.
www.hiwin.cz

HIWIN Singapore
www.hiwin.sg



Robotic Gait Training System

MRG-P100



Characteristics	Using a standing posture and non-suspension method, with a customized oval track, the mechanical exoskeleton drives the patient to execute lower extremity walking training, and simulate gait training.
Training mode	User passive
Indications	Incomplete spinal cord injury, stroke, traumatic brain injury, brain tumor patients after surgery, multiple sclerosis, lower limb muscle atrophy, hemiplegia, lower limb disorders caused by neurological disease, or senior citizens to improve physical activity and to promote physical fitness.
Specifications	Dimensions: 1538mm X 1290mm X 1550mm (Length X Wide X Height) Rated load: 387 kg Leg length range: thigh 380~500 mm calf 400~520 mm Weight restrictions: under 150 kg Walking speed: 1 km/hr (MAX) Power: 220 V

Shoulder Elbow Rehabilitation Robot

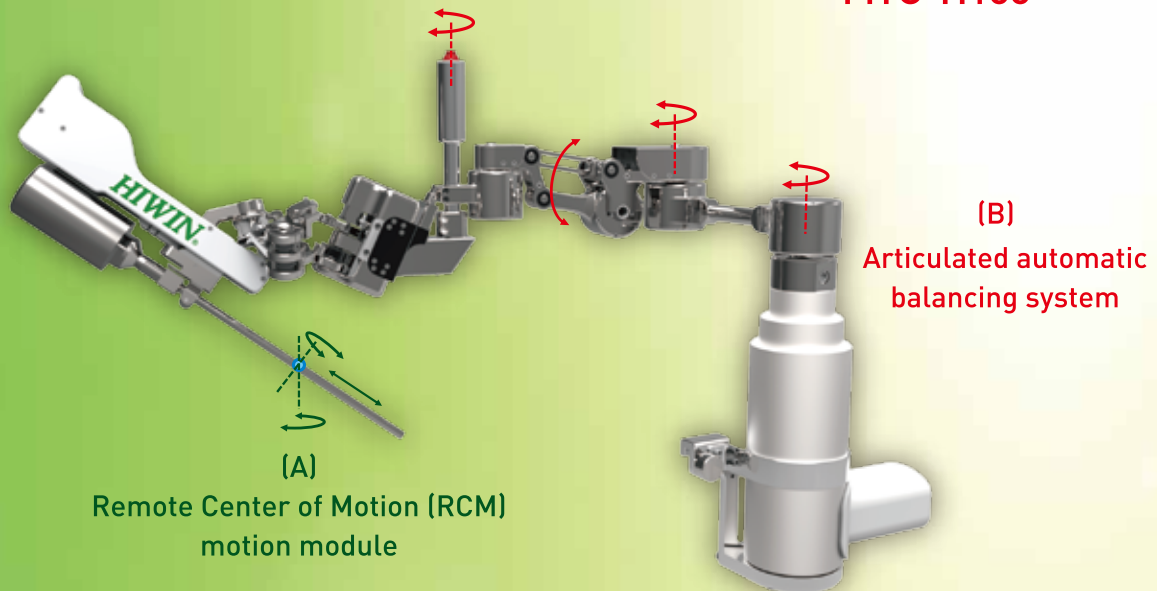
MSR-D105



Characteristics	Using a parallel four-link structure, so that the machinery can be more stable and accurate in driving the patient's upper limb movements, the robot integrates games into the task design, to promote the patient's willingness to use the machine.
Training mode	User active/passive
Indications	Stroke, traumatic brain injury, Parkinson's disease, spinal cord injury, muscle atrophy, soft tissue after surgery, rehabilitation after trauma.
Specifications	Dimensions: 1200mm X 1060mm X 1180mm (Length X Wide X Height) Elbow flexion angle: 0° ~80° Shoulder adduction angle: 50° ~130° Power: 110 V

The Robotic Endoscope Holder

MTG-H100



Characteristics	Uses unique kinematic mode (RCM), to reach a stable and precise endoscope spatial positioning.
Intended use	This product is an electric magnetic brake controlled arm that is fitted to the operating table by operating table connector. It is used as support for a fixed optical system (endoscopy) to conduct the following endoscopic surgery in parts of the abdominal cavity: cholecystectomy, hernia repair, fundoplication, splenectomy, appendectomy, right colon resection, sympathectomy, lymph node removal surgery, hysterectomy, gastric banding, gastric bypass surgery, nephrectomy, radical prostatectomy and others.
(A) Remote Center of Motion module	<p>Dimensions: 250mm X 150mm X 120mm (Length X Wide X Height)</p> <p>DOF: 3 (includes rotational DOF 2 and translational DOF 1)</p> <p>Weight less than 2.2 KG</p> <p>Range of movement: $\pm 110^\circ$ / $0^\circ \sim 60^\circ$</p> <p>Rated load: 2.0 KG</p> <p>Injection axis route of endoscope reaches 200mm</p> <p>With single-button unlocking function</p> <p>With single-button unlocking (endoscope) function</p> <p>With mechanical Remote Center of Motion</p>
(B) Articulated automatic balancing system	<p>Dimensions: 600mm X 70mm X 60mm (Length X Wide X Height)</p> <p>DOF: 4 (includes rotational DOF 3 and translational DOF 1)</p> <p>Weight less than 8 KG</p> <p>Range of movement: $\pm 360^\circ$ / R480 / H200</p> <p>Rated load: 4 KG</p> <p>With DOF 4 Rotation/Movement Locking function</p> <p>With single-button unlocking function</p>
Power	110 V