

SWORTEC SA is a Swiss company for design and manufacture of innovative rehabilitation devices



MotionMaker™ is a **stationary robotic system** for the active mobilisation of the lower limbs of neurological patients with movement disorders. With its proprietary Closed-Loop (CLEMST™) technology, it is a novel and exciting development that offers a truly interactive patient training system for the recovery of maximum mobility and autonomy.

Its main functions are investigation, diagnostics, training and rehabilitation of muscular strength and endurance, as well as joint mobility and movement coordination. **MotionMaker™** is equipped with **two orthoses that monitor, guide and control movements of the lower limbs**, associated with neuromuscular electrical stimulation.

First clinical results for MotionMaker™ are very encouraging and have demonstrated significant improvements in voluntary muscle control for SCI patients with incomplete lesion.

StimMaker™ is a stand-alone FES rehabilitation device and can be used with MotionMaker™ for warm-up and cool-down purposes. It is a high performance neuromuscular electro stimulator with 14 to 20 independent channels.

StimMaker™ is a new reference in the medical devices market. It is a high-performance neuromuscular electrical stimulator, especially developed as a complementary device for rehabilitation, required by MotionMaker™.



The **ModuTable™** has been developed especially for MotionMaker™ device. It is dedicated to patient's preparation and transfer as well as to increase the uninterrupted use of the MotionMaker™.

This table includes a detachable section which is a standard MotionMaker™ seat. The **ModuTable™** product facilitates the transfer from the wheelchair and the electrodes application as well as an easy transfer to the MotionMaker™.

MOTIONMAKER™ APPLICATIONS

PATIENT PROFILE	PERFORMANCES & PATIENT BENEFITS
Patients suffering from the following diseases will progress significantly with MotionMaker™ treatment :	Patients obtain following progress and benefits with MotionMaker™ treatment :
Spinal cord injury	Important increase of muscular strength
Cerebral Palsy	Reduction of spasms
Traumatic brain injury	Improvement of limbs perception and balance
Stroke	Re-programming of voluntary movements
Multiple sclerosis	Reduction of the joint limitation
Locomotor's infirm	Better control of voluntary movements



Partners: Swortec SA - Swiss Foundation for Cyberthosis, Switzerland



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