

Sidra LEG

The **world's only two-motor** rehabilitation robotic exerciser with synchronised electrostimulation and **electromyography triggered lower limb movement**.

Length-adjustable and **extension interchangeable** for adults and paediatric applications in all stages of rehabilitation (**MMT/Lovett scale from 0 to 5**).



For both **training** and **assessment** with **4-channel EMG/EMS**

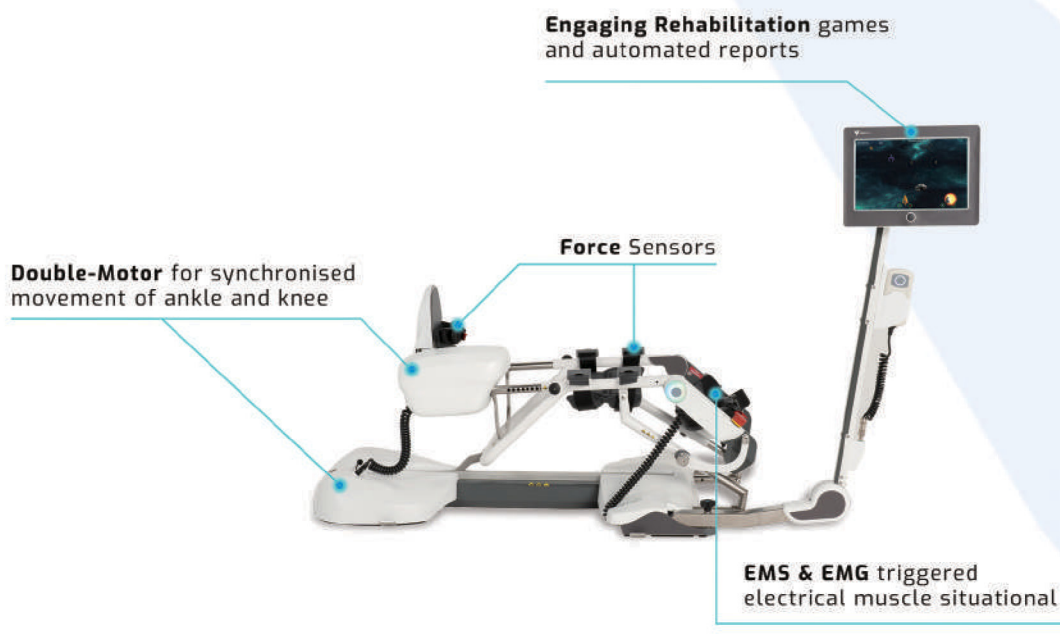
- ✓ Continuous active motion (CAM)
- ✓ Continuous passive motion (CPM)
- ✓ EMG - triggered robotic assistive movement
- ✓ Electromyography measurement and biofeedback (EMG Biofeedback)
- ✓ Electrical muscle stimulation (EMS)
- ✓ Electromyography triggered electrical muscle stimulation (EMG+EMS)



UNIQUE FEATURE

Synchronised movement of ankle and knee at the same time to help patients to **re-learn correct gait movement pattern**.





ASSESSMENT FEATURES TO EVALUATE

- ✓ **MUSCLE ACTIVITY**
- ✓ **RANGES OF MOTION IN ISOLATED JOINTS AND PLANES**
- ✓ **MAXIMAL MUSCLE STRENGTH**

INTENDED USE FOR NEUROLOGICAL AND ORTHOPAEDIC PATIENT

- ✓ **Helps to relearn** voluntary **motor functions** of the lower extremities
- ✓ Maintaining or **increasing range of motion**,
- ✓ **Measurement, evaluation** and **increase** of lower limbs strength
- ✓ Relaxation of **muscle spasms**
- ✓ **Prevention** or **retardation** of disuse atrophy
- ✓ **Increasing** local blood circulation

ASSESSMENT FEATURES TO EVALUATE

- ✓ free rotation movement with possibility to lock the mechanism in a given position
- ✓ **Added motors** with goniometer
- ✓ **Force sensors** for plantar **flexion/dorsiflexion** and push/pull

Easy to use with **pre-set therapeutic protocols** and automatic report availability.

Offline and **online** options with **telemedicine** and **telerehabilitation**.

Engaging **rehabilitation games** for patients.