

Exo-H3 Main Features

- Open Hips Attachment for an **easy installation**
- Easy **subject adaptation** through optional extended cables and extension bars (different sizes)
- Hips Attachment adjustable in the sagittal and frontal plane.
- **Toolkit** included.
- Two straps per segment to ensure an **optimal fixation**.
- Eye Bolts installed for **harness fixation**.
- Included **handlebars** to assist the gait.
- **Interchangeable battery** for a continuous use.
- Emergency stop.
- Communication **compatibility with several platforms** (Matlab ®, LabView ®, ROS, etc.)
- **Android App** for gait management
- Online support.



Exo-H3 Robotic System Technical Specifications

Number of Degrees of Freedom	6 degrees of freedom in the sagittal plane. One for hip, knee and ankle in both right and left legs.		
Type of Control	Position, Torque and Admittance in real time control.		
Final Actuator	Net Torque	35	Nm.
	Peak Torque	152	Nm.
Communication	External CAN-Bus Wi-Fi 2.4 GHz IEEE 802.11 b/g/n Bluetooth v3.0 (Class 2) 2,4 GHz Transceiver		
Power supply (Charger)	100 – 240 V AC / 50-60 Hz (AC power line)		
Battery LiFePO4	Size (H)	19	cm.
	Size (W)	6	cm.
	Size (L)	24	cm.
	Normal capacity Type	10.8	Ah.
	Normal voltage	19.2	VDC.
	Normal Power	207.36	Wh.
	Standard discharge current	5 (const.)	A.
Principal structure production material	Stainless steel and high resistance aluminum (7075).		
Exoskeleton sensors	6x Joint Position.		
	6x Joint Interaction Torque		
	4x Pressure Sensor (heel and toe)		
Joints Range of Movement (Flexion/Extension)	Hip (135°)	105° (flex.)	30° (ext.)
	Knee (110°)	105° (flex.)	5° (ext.)
	Ankle (60°)	30° (flex.)	30° (ext.)
Size Adaptability	Min. subject's height (*)	110	cm.
	Max. subject's height (*)	210	cm.
	Min. subject's weight	40	Kg.
	Max. subject's weight	100	Kg.
Dimensions	From 90 cm. to 148 cm. tall (approx.)		
	46 cm. long (side view) / 37 cm. (side view) without battery		
	65 cm. wide (front view)		
Weight	17 kg. approx. / 14,6 kg. without battery		

* Some sizes options are only available through optional accessories.