

New products of 2018

SNAP GmbH & Axosuits SRL: Exoskeleton



SNAP-GmbH and Axosuits SRL are exhibiting a medical exoskeleton at OT-World 2018 in Leipzig, that has been developed by Axosuits. The frame of the exoskeleton is made from a metal alloy, which is both robust and light at the same time, thus guaranteeing stability, on the one hand, and a practical total weight of 25 kg, on the other. It can be adapted to fit people with heights ranging from 150 to 200 cm, has an internal width of up to 60 cm and is suitable for patients up to a maximum of 120 kg in weight. The skeleton offers multiple levels of functional support and also has a

built-in passive support system for additional security. The drive mechanism is powered by a 24 volt DC li-ion battery, with a run-time of up to 6 hours. The exoskeleton can be linked to social media, has a smartphone interface and a web interface for medical staff, together with tools for generating functional statistics.

The exoskeleton has been developed mainly for patients with severe motor impairment, as a way of accelerating their recovery during, for instance, post-operative therapy. In addition, it may be used in long-term therapies for patients with currently untreatable spinal cord injuries. Another target group are people with age-related deficiencies, such as muscular atrophy. Exoskeletons can increase bone density, muscle mass and metabolic function, as well as stimulating the cardiovascular system. Exercising with the exoskeleton actively helps prevent the secondary illnesses that are associated with the use of a wheelchair.