



Screw Gear

Motor

Load Cell
LCB200

Computer

Digital Amplifier
IDA100

PLC
Data Acquisition

Amplifier
IAA Series

APPLICATION SUMMARY

Spinal cord injuries (SCI) often leave the patient with little to no ability to ever walk again. The Institute for Human and Machine Cognition (IHMC) aimed to help solve that with a powered bionic exoskeleton at the 2016 Cybathlon in Zurich, Switzerland. Their ingenious exoskeleton suit, named Mina v2, utilizes power actuators that strap to an individual's legs, moving their hip, knee, and ankle joints, allowing an individual to walk unassisted. FUTEK sponsored their exoskeleton by providing our LCB200 load cells, which were installed in specialized fixtures IHMC designed, enabling the system to receive accurate force feedback from the motors and closing the control loop, all while allowing the sensor to safely rotate.

PRODUCTS IN USE

6 FUTEK LCB200 In Line Rod End Tension and Compression Load Cells paired with amplifiers (IAA series and IDA100)

All FUTEK application illustrations are strictly conceptual. Please contact us with questions.

Sensor Solution Source

Load · Torque · Pressure · Multi Axis · Calibration · Instruments · Software

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U.S. Manufacturer