

OptiPush Biofeedback System



The Optipush Biofeedback System is a powerful tool for analyzing wheelchair propulsion. It has the capability to wirelessly measure the dynamic forces and moments applied to the handrim. It is ideal for studying propulsion biomechanics or analyzing propulsion technique. The real-time biofeedback software gives clinicians and wheelchair users instant feedback on efficiency of propulsion and risk of upper extremity injuries. Performance targets can be set to train wheelchair users to improve their technique.

Instrumentation

- Multi-axis load cell with 0.25 N resolution
- Data sampling at 200 Hz.
- Wireless transmission of data using BlueTooth Technology.
- Interface with wheel sizes from 20" to 26" (handrims and wheels included)
- Paired with weight and sized matched non-instrumented wheels
- Fits most wheelchairs

Software

- Push by push result displayed along with live 5-push average line and performance target line.
- Instant analysis of common biofeedback variables: Cadence, Peak Force & Torque, Impact, Smoothness, Power Output, Contact Angle, Push Distance, Push Recovery Time and Speed.

researcher or clinician, big wheels or small,
One OptiPush Fits All

