



UBILITY™

FOR ORTHOTISTS & FACILITY TEAMS

UBILITY™ PRESENTS UbiliFlex™

Patient-specific fit. Integrated support.

Powered elbow assistance with custom-fabricated interfaces for patients with upper-limb paralysis.

Brace weight: 1 kg

Excluding custom-fabricated cuffs.



Who may be evaluated?

Patients with upper-limb paralysis associated with ALS or stroke, including wheelchair users and those with complete paralysis of the affected arm. A functional muscle elsewhere may provide the EMG signal. Individual assessment, scans, measurements, fabrication, and fitting guide the configuration.

What to explore with your team

Functional goals

Discuss the patient's upper-limb needs and the tasks being considered. Define expectations before considering a configuration.

Control and alignment

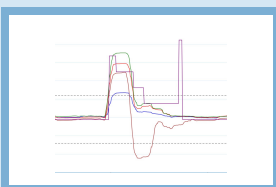
The EMG sensor can use any functional muscle group that provides a usable signal, including outside the affected arm. The clinician selects the site and verifies alignment and calibration.

Individual interface design

Review arm geometry, contact areas, padding, retention, and the relationship between the patient and the brace.

Fitting and support

Discuss placement and removal, patient and caregiver instruction, and the support needed after fitting.



Muscle contraction becomes an activation request.

sEMG detects the muscle signal; the controller commands brace movement. The supplied trace illustrates muscle contraction.

See the complete fabrication workflow on the reverse.

Start a clinical and facility discussion.

Mike Funk, CEO • UBILITY™

General inquiries: info@ubility.inc • 330-356-5052

Product support: support@ubility.inc

4305 Mt Pleasant St NW, Suite 203B • North Canton, Ohio 44720



How we build your UbiliFlex™ brace.

The fabrication journey for UBILITY™'s powered upper-limb brace: from the patient's anatomy and functional goals to a personalized brace configuration.



The UbiliFlex™ brace shown with its battery and surface-EMG sensor.



Muscle contraction is detected by sEMG and used to request brace activation. The controller commands movement.

WHAT THIS PROCESS CREATES

A personalized powered arm brace.

UbiliFlex™ is designed to assist bending and straightening at the elbow. These nine steps connect patient anatomy, custom parts, and individualized fitting.

UNDERSTAND THE PATIENT

01

Prescription & functional evaluation

Begin with prescribed needs and functional goals.

02

3D limb scan & direct measurements

Capture the individual's anatomical dimensions.

03

CAD-rectified limb model

Develop the digital reference for custom design.

DESIGN & FABRICATE THE CUSTOM PARTS

04

Custom fabricated cuff and bracket design

Plan patient-specific interfaces and connections.

05

Thermoplastic cuff molded on patient

Shape the contact interface to the individual.

06

Patient-specific 3D printing

Upper and lower cuffs, lower bracket, and custom lower arm bar.

ASSEMBLE, PERSONALIZE & FIT

07

Finishing, padding & assembly

Finish and drill components; assemble with the motor and bar.

08

Alignment, calibration & programming

Set patient-specific joint alignment, sensor calibration, and programming.

09

Final fitting, verification & delivery

Complete the final fit and review of the assembled brace configuration.