

Upgrades to Boston Digital™ Arm



The Boston Digital Arm has been upgraded with a new urethane molded forearm and battery cover. These are available in 3 standard colors plus custom colors/patterns. Additionally, this system now includes a new high-capacity, light-weight lithium-polymer battery. This 2000 mAHr battery has twice the capacity of the original Ni-Cad battery and yet is 30% lighter. The new battery also has an on-board fuel gauge and appropriate safety features to assure safe and reliable operation under normal conditions. This light-weight battery reduces the total weight of the Boston Digital Arm to less than 2 pounds, making it the lightest microcontroller-based powered adult elbow system on the market today.

Because of the demand for humeral-level prostheses using a dexterous hand (*bebionic* or *iLimb*) with a powered elbow, the new Boston Arm battery has been designed with an optional circuit board specifically for these multi-motor terminal devices. This regulates the battery to 7.4 volts and delivers up to 6 amps. As a result, the prosthesis will operate all day with a single battery. Additionally, the weight distribution is significantly better than using a supplementary battery in the forearm to power the hand.



The new Lithium-polymer battery can also be fit to existing Boston Digital Arm Systems, so when your patient's battery reaches 2-4 years of age, consider this battery for a replacement. If your patient wants one of the new dexterous hands (*bebionic* or *iLimb*), consider offering the battery upgrade to optimize the hand performance.

BE360 Lithium-polymer Battery Specifications:

Voltage: 11 volts nominal
Weight: 172 grams (0.4 lbs)
Current (max): 13 amps

BE361 Regulator circuit board (optional):

for use with *bebionic* or *iLimb* hands
Voltage: 7.4 volts nominal
Current (max): 6 amps

BE366 Charger for lithium-polymer battery (BE360)

For additional information on the Boston Digital Arm System, dexterous hands and the new Lithium-polymer battery, contact Liberating Technologies, Inc. at **800-437-0024**.

3/18/2010

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