

## Boston Digital Arm™ System Specifications

Factor/measure	Boston Digital Arm
Torque	10 ft-lbs
Weight Lifting Ability (@14")	9 lbs
Clutch (mechanical)	reverse locking
Clutch release under load	yes
Speed: no load	
flexion (against gravity)	1.1 sec
extension (with gravity)	1.0 sec
Speed: with Greifer (1.2 lbs)	
flexion (against gravity)	1.2 sec
extension (with gravity)	1.0 sec
Weight of Elbow (no TD) w/ battery & lamination collar	2.2 lb (1 Kg)
Weight of Elbow with OB TD	3.2 lb
Center of Mass (from rear of housing)	3.5 inches
Control Options:	
myo-myo	yes
positional servo & myo	yes (1 or 2)
switches	yes
Touch Pads (FSR) - up to 5	yes
Targeted Muscle Reinnervation (TMR) version	available
Mode Selection	co-contraction, switches or revert
Battery Capacity (11 volt) – lithium-polymer	2000 mAhr
Removable lithium-polymer battery	yes
On-board Charging	yes
Charger speed	Less than 2 hours
Patient adjustable humeral rotation friction	yes
Forearms:	
wrist size, inside diameter	50 mm
number of colors	2 – tan & black
range of lengths (minimum without wrist rotator)	8½ - 14" (216-355 mm)
maximum circumference	9.25"
minimum coupling collar distance - to bottom of elbow	2.80"
minimum distance residual limb - to elbow center	1.75"
Terminal Device Compatibility:	
Bebionic multi-articulating hand	yes
iLimb Ultra & Revolution multi-articulating hand	yes
Otto Bock electric hands (8E38=8, 8E37, 8E, etc.)	yes
Steeper Select electric hands	yes
Otto Bock Greifer	yes
body powered split-hooks	yes
Motion Control Electric Terminal Device (ETD)	yes
Powered Wrist Rotator:	
Motion Control electric wrist rotator	yes
Drive Train	direct drive (wave generator)
Free-swing mode	yes (mechanical)
Warranty	2 year limited
Extended warranty optional	2 year
Myoelectrodes/amplifier size	1" x 11/16" x 3/16" thick
Suggested* HCFA L-code considerations (in addition base code):	
Boston Arm - sequential control	L7180
Boston Arm - simultaneous control	L7181
Boston Arm - "Microprocessor control" terminal device	L6882
Boston Arm - Lithium Battery Replacement	L7367
Boston Arm - Lithium Battery Charger	L7368
Boston Arm - Proportional Control (previously L7274)	L7499
Electric Hand, Adult	L7007
Terminal Device Glove for hands, any material	L6890
Electric Hook, Adult	L7009
Electric Hand, Multi-articulating digits, any grasp pattern	L6880
Quick Disconnect Wrist	L6628
Shoulder Joint, Multi-positional Locking, abduction friction	L6646

\* The L-codes provided represent our suggestions and you as a practitioner must decide which codes to use.

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