

# The Elbow Orthosis Series from Anatomical Concepts, Inc.

- Low Profile
- Simple fast fit designs
- Wrap-around closure
- Infinite ROM positioning 0° to 110°
- No medial upright impingement
- Decreased fitting time
- Single dorsal upright

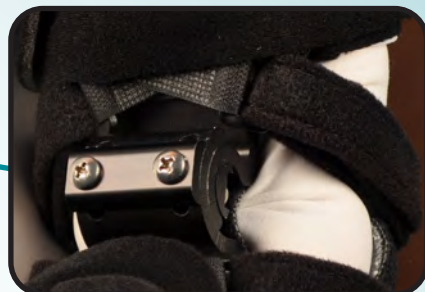
## Three Functional Alternatives

### EMO

#### Elbow Management Orthosis

##### EMO Indications & Applications:

- Static progressive stretching
- Musculoskeletal injury immobilization
- Post Botox or serial cast management
- CVA, TBI, SCI, CP and MS
- Radial head injury

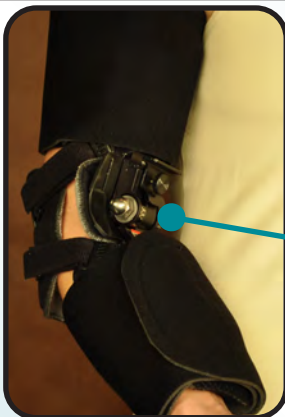


### QUAD

#### Ratchet & ROM Joint System

##### QUAD Indications & Applications:

- Dynamic ratchet style passive stretch
- Bi-directional stretching
- Musculoskeletal injury immobilization
- Post Botox or serial cast management
- CVA, TBI, SCI, CP and MS
- Post Op Radial head injury

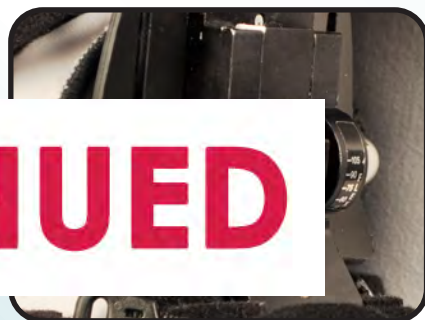


### E-ROM

ROM J  
E-ROM

# DISCONTINUED

- Bi-direc
- Muscul
- CVA, TB
- Post Op radial head injury



#### Patents

7,122,016 6,464,659 5,944,679 6,302,858  
7,662,119 5,908,398 7,112,181

European Patent: EP 0 931 525



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# **EMO™ Elbow Management Orthosis**

*Static Progressive Adjustable Hinged Elbow Brace*

## **Wear and Care Instructions**

### **Hinged elbow orthoses –**

- Can be worn while in bed or when upright. Follow application instructions for proper positioning.

### **Recommend wearing schedule –**

- As requested by ordering physician
- In general to tolerance (determined by patients ability to wear without causing pressure, swelling or irritation).
- For those patients who have compromised sensation, are at risk for skin breakdown or disruption of soft tissue surface - check skin after 1 hour of wear - if no concerns increase wearing time by 2 hour increments not to exceed 6 hours of wear without removal for 30 minutes to 1 hour, then reapply.

### **General –**

- **EMO™ Orthosis** is recommended for those patients who need the elbow immobilized in a fixed position within a range of 0° to 110°.
- **E-ROM™ Orthosis** is recommended for those patients who need either the flexion and or extension Range of Motion (ROM) of the elbow limited to a specific range. It can be used for post operative or contracture management.
- **QUAD™ Orthosis** has the same capabilities of the E-ROM with the addition of a ratchet lock mechanism that can enhance capabilities when working with contractures by allowing extension while blocking flexion. Additionally it can be used for stabilizing the elbow of the neuro rehabilitating patient.

### **Care –**

- The liners on the forearm and upper arm along with the elbow pad are removable. They can be machine washed using a mild laundry detergent on the delicate cycle or hand washed if desired. Make sure the liners and pad are rinsed well. Dry on low temperature setting or air dry.
- *Seek further assistance from your local orthotist to customize the system to meet the needs of you and your patient.*



# EMO™ Elbow Management Orthosis

Static Progressive Adjustable Hinged Elbow Brace

## Fitting Instructions

The EMO™ elbow orthosis is an anterior (dorsal) fitting single jointed elbow orthoses that will stabilize flexion or extension ROM throughout a range of 0° of extension to 110° of flexion.

### A. Application -

- 1) Unfasten Velcro® wrap around straps on the lower and upper arm segments of the orthosis. Proceed with unfastening the 2 elbow pad straps that are on the outside (side facing you). Position the orthosis so the metal hinge is centered over the front of your arm (Figure 1) and the adjustment screws are placed in line with the center of the elbow when viewing it from the side (see figure 2 arrow and line).

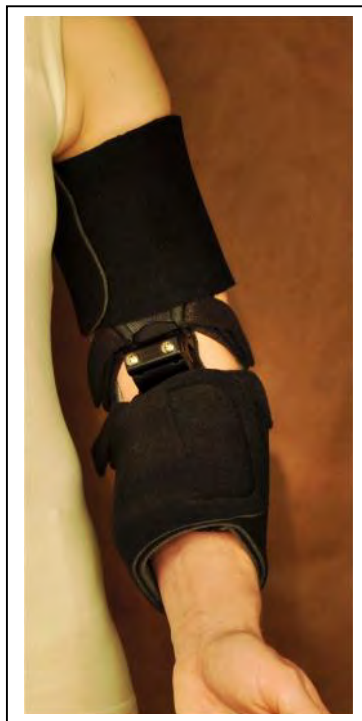


Figure 1



Figure 2



- 2) Apply the orthosis by first securing the 4 Velcro® straps attached to the elbow pad (Figure 3). Adjust the elbow pad straps so the elbow pad is centered over the patients elbow. Next, proceed with securing the wrap around straps beginning with the lower arm first and finishing with the upper arm strap (Figure 4).



Figure 3



Figure 4

- 3) The EMO™ elbow orthosis when properly positioned will look like the photograph below (Figure 5)



# The EMO™ (Elbow Mangement Orthosis)

## Static Progressive Adjustable Hinged Elbow Orthosis

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### Elbow Joint Mechanism Instructions

**Function:** Infinite static progressive lock 0° extension to 110° of flexion

#### **Instructions:**

##### **1. Adjusting elbow joint position**

Remove rubber cap covering joint head. Loosen the 2 screws (Figure 1) shown in figure 1 with a # 2 (standard) Phillips® head screw driver. Position mechanical joint in desired angle to match patients elbow position and retighten screws. Replace rubber cap once adjustments have been made and screws are tightened properly.



Figure 1

##### **2. Incremental adjustment markings**

Each marking (A) (Figure 2) equals 5° of movement when referenced to mark B. This allows for documentation of the patients progress.

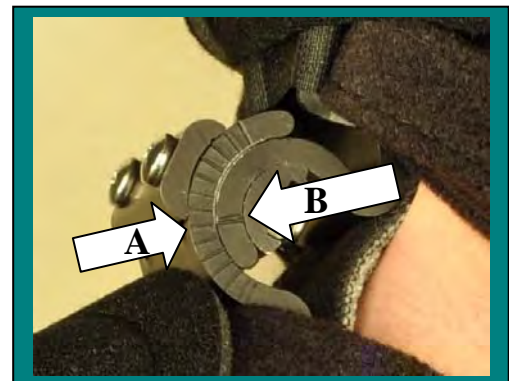


Figure 2