

Mechanical Locking Elbows - Exoskeletal



- Three sizes; pre-teen, teen and adult
- Light-weight;
- Available in four colors
- Can be used with passive, body-powered, or electric terminal devices
- Alternating lock mechanism
- Only conventional elbow with humeral rotation lock
 - Lock detents every 30°
 - Adjustable humeral friction when unlocked

Mechanical Locking Elbow a cable-operated elbow system with an alternating lock. The system is designed for rapid assembly, and the socket can be attached by either laminated or riveted construction. The system has two principal elements: the Elbow Mechanism and the Forearm.

The elbow mechanism is controlled by an operating cable, which is activated by body movements. The user can lock and unlock the elbow mechanism by sequential operations of the control cable. The elbow module includes a humeral rotation unit, which is supplied with a positive lock. The user operates this lock by twisting a reinforced plastic ring. When the lock is not engaged, a spring-loaded ball, detent mechanism, and adjustable friction drum control the freedom of rotation.

The laminated forearms are fitted with two side steels, which engage into two 'shoes' on the elbow mechanism and are screwed into place. The forearm tapers to a parallel, cylindrical distal section, which can be shortened with a saw to the desired length. Elbow shells and forearms are available in four colors: Caucasian (**C**), Tan (**T**), Light Brown (**L**), or Dark Brown (**D**). Indicate the color code when ordering.



EL225-X Cable-lock Mechanical Elbow 2¼"
Requires Prefabricated Forearm & Lamination Ring – select below
Weights 0.55 pounds



EL250-X Cable-lock Mechanical Elbow 2½"
Requires Prefabricated Forearm & Lamination Ring – select below
Weights 0.70 pounds

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EL275-X Cable-lock Mechanical Elbow 2 $\frac{3}{4}$ "
Requires Prefabricated Forearm & Lamination Ring – select below

EL275E-X Electric-lock Mechanical Elbow 2 $\frac{3}{4}$ " - *DISCONTINUED!*

Locking Elbow Accessories:



EL226S-X Prefab Forearm, 2 $\frac{1}{4}$ " elbow, 1 $\frac{1}{2}$ " OD wrist
EL226-X Prefab Forearm, 2 $\frac{1}{4}$ " elbow, 1 $\frac{3}{4}$ " OD wrist
EL256S-X Prefab Forearm, 2 $\frac{1}{2}$ " elbow, 2" OD wrist
EL256-X Prefab Forearm, 2 $\frac{1}{2}$ " elbow, 2 $\frac{1}{8}$ " OD wrist
EL276S-X Prefab Forearm, 2 $\frac{3}{4}$ " elbow, 2" OD wrist
EL276-X Prefab Forearm, 2 $\frac{3}{4}$ " elbow, 2 $\frac{1}{8}$ " OD wrist



EL227 Lamination Ring, 2 $\frac{1}{4}$ " parallel
EL257 Lamination Ring, 2 $\frac{1}{2}$ " parallel
EL277 Lamination Ring, 2 $\frac{3}{4}$ " parallel
EL278 Lamination Ring, 2 $\frac{3}{4}$ " 5° taper



EL237-X Housing, 2 Side Pieces, 2 $\frac{1}{4}$ "
EL259-X Housing, 2 Side Pieces, 2 $\frac{1}{2}$ "
EL279-X Housing, 2 Side Pieces, 2 $\frac{3}{4}$ "

Order the Housings above to replace damaged units.