

RSLSteeper Modular Arm System



- **Lightweight**
- **Modular construction**
- **Strong and durable**
- **Simple, fast assembly**
- **Full range of movement**
- **Adjustable friction for**
 - **Wrist flexion and extension**
 - **Both shoulder rotations**
 - **Internal and external rotation**
- **Compatible with most TD's**
- **Excellent for trial fittings**
- **Endoskeletal**

RSLSteeper Modular Arm System

The Modular Arm System from RSLSteeper is truly modular with many interchangeable parts, allowing prosthetists to adapt components from most manufacturers. It is designed for rapid assembly and is light and cosmetically appealing. It requires minimal harnessing. A shoulder unit has adjustable friction in flexion and abduction and can be used for shoulder disarticulation and four-quarter level prostheses. This unit or a choice of three lamination housings connect the user's socket to the elbow with a connecting tube and threaded collar. An adjustable clamp on the collar provides humeral rotation friction. The elbow unit locks in one of four positions with a simple manual push-push lock-unlock. The forearm tube is an integral part of the elbow. It is cut to length and then fitted with a wide choice of wrist and hand adapters. Most hands and TD's can be accommodated. The Modular Arm System is finished with a soft and continuous surface. This finish comprises inner and outer elements. The inner cosmesis is built from four components, a foam cover for the upper arm, a foam cover for the lower arm and two soft foam wedges at the elbow. The arm foams are molded from Plastazote™. These foam covers are supplied over-sized so that they can be shaped to approximate the contralateral arm. The outer cover is available in a choice of two materials; colored elastic stockinet or reinforced silicone fabric. The latter is available in a choice of four colors. The silicone covers wipe clean with a light application of soap and water.

Shoulder Components



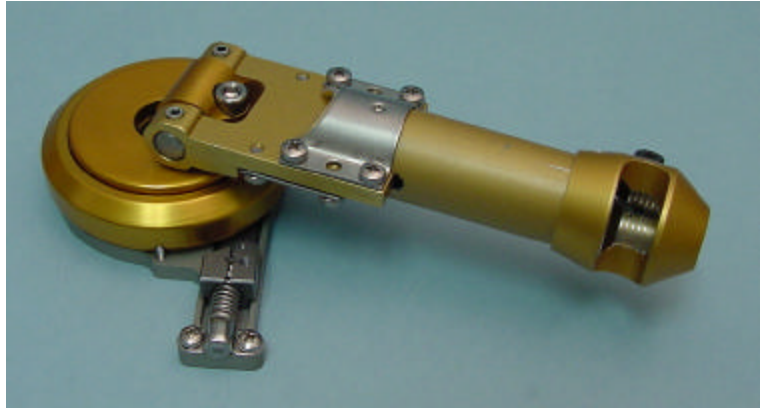
MA150 Friction Shoulder Joint L/R

- Flexion and abduction friction are adjustable
- Motion limited to -15° in extension and 45° in flexion
- Three steel attachment struts measure 1.5 x 12 x 100mm
- Attaches to inside of Connecting Tube with wedge
- Weight: 157 grams

RSL Steeper Modular Arm System

The LTI Locking Shoulder Joint

Many high level amputees like the comfort of a free swinging shoulder joint. The LTI Locking Shoulder Joint is fully described in Section 4 of this catalog. To fit it to the Modular Elbow MA150, you will require the SJ91 Shoulder Joint itself along with an SJ62 Endoskeletal Adapter Kit and a 10R2=1/2-20 Adapter which provides the 1/2-20 thread and friction collar. The female thread on this adapter attaches to the stud on the MA151 Elbow and the adjustment screw controls humeral rotation friction.



Above-Elbow Components (Select components according to residual limb length)

Very Long Limb—Attach the MA163 1 1/2" Friction Housing directly to the 1/2-20 stud on the Elbow. The top of the Housing will be 46mm above the Elbow axis. (The larger Housings prevent full elbow flexion.)

Long Limb—Attach the MA155 Extended Female Adapter to the Elbow stud. Any of the Housings, MA163 to MA165, can then screw onto the Adapter to give an axis to top of Housing length of 70 to 114mm.

Short Limb— Attach one of the three Housings to an MA153 Male Tube Adapter. The Adapter goes into the MA152 Connecting Tube which attaches to the Elbow stud with an MA154 Female Tube Adapter.



MA163 1 1/2" Friction Housing

MA164 1 3/4" Friction Housing

MA165 2" Friction Housing

- Friction adjustment requires hole in lamination



MA154 Female Tube Adapter, 1/2"-20 Thread

- Adjustment screw to provide friction with 1/2-20 stud.
- Attaches to inside of Connecting Tube with wedge



MA153 Male Tube Adapter, 1/2"-20 Thread

- Attaches to inside of Connecting Tube with wedge

RSL Steeper Modular Arm System



MA155 Female Extension Adapter, 1/2"-20 Thread

- Adjustment screw to provide friction with 1/2"-20 stud.
- Threaded extension is 60mm (2.36") long

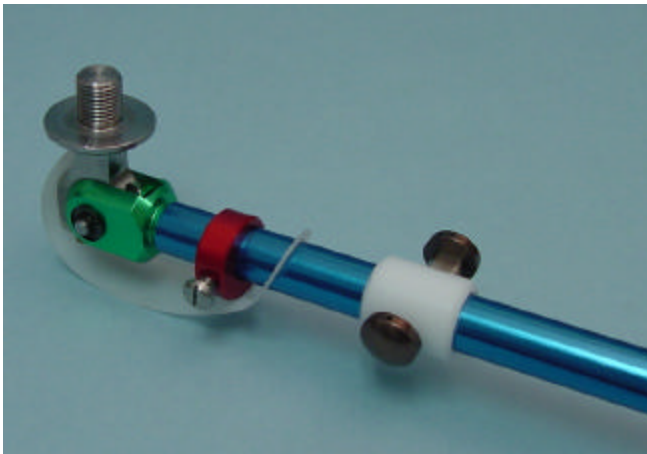


MA152 Connector Tube, 230mm

- Outside diameter 15.8mm (5/8")
- Inside diameter 12.7mm (1/2")
- Cut to appropriate length

The Elbow Unit

The elbow can be positioned at four angles by pushing on the two mushroom shaped lock-unlock buttons on the forearm. These are normally recessed below the surface of the cosmetic covering. Components above the elbow screw onto the 1/2"-20 stud where humeral rotation friction is adjusted by tightening the collar with the female thread.



MA151 Hand Operated Elbow Unit.

- Attaches to above-elbow components with 1/2"-20 stud
- Plastic guard protects foam cover from moving elbow
- Elbow axis is only 20mm from plastic guard
- Ring on forearm tube may attach a lift post
- Push-push lock-unlock moves 10mm side to side
- The forearm tube is 5/8" diameter and 300mm long
- Forearm may be cut to 210mm (8 1/4") from axis
- Weight: 257 grams



MA144 Flexion Bar, Manual Arm

- Replace screw on ring below elbow mechanism with this post to mount a lift assist cable or a cable for a terminal device

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Below Elbow Components

To use the Modular System for a transradial amputation, attach the MA152 Connector Tube to the MA166 below. Then select an adapter for the TD. The Elbow forearm tube and the Connecting Tube are the same diameter.



MA166 Lamination Adapter, no rotation

- Supplied with Spring Pin for attachment



MA154 Female Tube Adapter, 1/2"-20 UNF Thread

- Provides pro-supination only
- For use with 1/2"-20 male-thread terminal devices
- With adjustment screw to provide friction with respect to a male 1/2"-20 stud.
- Attaches to inside of forearm tube with wedge



MA156 Universal Wrist Tube Adapter

- Provides wrist flexion and extension
- TD rotation occurs distal to wrist flexion
- For use with 1/2"-20 male-thread terminal devices
- Attaches to inside of forearm tube with wedge
- Two adjustment screws
 - 1st provides friction for 90° wrist flex-extension
 - 2nd provides friction with respect to any 1/2"-20 TD inserted into the collar



MA177 Adapter, Male M12 to Male 1/2"-20 Thread

- Convert any RSLSteeper adult hand to operate with the Adapters above by adding this Thread Adapter
- 8.5mm center hole will pass most connectors



MA162 Spare Spring Pin

- Use with MA141, MA142, MA143, MA145 & MA166

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MA142 2" Friction Wrist Housing

MA143 2.13" Friction Wrist Housing

- For use with wrist collars that cement in place
- MA142 will accept an Otto Bock 10S1=45 Wrist Collar
- MA143 will accept an Otto Bock 10S1=50 Wrist Collar
- A hole is provided to pass wires
- These two housings accept the Steeper disconnect wrists in section 3 of this catalog
- Supplied with spring pin for attachment



MA141 Oval Hand Connector Plate, no rotation

- Will attach any RSLSteeper Passive Hand
- Supplied with spring pin for attachment

Cosmetic Covering Options



MA131 Foam Cosmeses

- Two Plastazote™ sleeves plus two foam elbow wedges (not shown)



MA132 Stockinet, elastic



MA172 Silicone Cover, light flesh pink

MA173 Silicone Cover, suntan

MA174 Silicone Cover, light brown

MA175 Silicone Cover, dark brown