



**Automatic Elbow**

Automatic Elbow with eight lock positions that can be engaged/disengaged alternately through the actuator. This can be done with the sound hand or by another body movement captured through a harness. Locked/unlocked control of humeral rotation also allows for friction adjustment of this movement.

- Detachable forearms with parallel distal sections are available in various wrist sizes.
- Links proximally to parallel or tapered lateral rings.
- Four colours available.

**Note:** # Denotes finish colour. Add **PK** for Pink, **ST** for Tan, **MB** for Mid Brown or **DB** for Dark Brown.

Part Number	Elbow Size (Dia.)	Description	Wrist Options	Weight
B11185#	58mm (2 1/4")	Automatic Elbow, Child	38mm, 45mm (1 1/2", 1 3/4")	255g (9 oz)
C07375#	64mm (2 1/2")	Automatic Elbow, Adolescent	50mm, 54mm (2", 2 1/8")	328g (11 1/2 oz)
C07286#	70mm (2 3/4")	Automatic Elbow, Adult	50mm, 54mm (2", 2 1/8")	346g (12 oz)



**Prefabricated Forearm for Automatic Elbow**

Laminated in polyester with toughened integrated side steels to fit the Automatic Elbow. Side steels have prepositioned holes for placement of forearm pulley, and the parallel distal section allows finished lengths to be determined accurately. Supplied in four colours. Please contact Customer Services for alternative colour requirements.

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Part Number	Elbow Size (Dia.)	Description	External Wrist (Dia.)	Overall Length	Parallel Length	Weight
C10564#	58mm (2 1/4")	Child Forearm	38mm (1 1/2")	226mm (9")	120mm (4 3/4")	117g (4 oz)
C10560#	58mm (2 1/4")	Child Forearm	45mm (1 3/4")	230mm (9")	120mm (4 3/4")	94g (3 1/3 oz)
C10552#	64mm (2 1/2")	Adolescent Forearm	50mm (2")	260mm (10 1/4")	120mm (4 3/4")	114g (4 oz)
C10556#	64mm (2 1/2")	Adolescent Forearm	54mm (2 1/8")	275mm (11")	120mm (4 3/4")	155g (5 1/2 oz)
C11381#	70mm (2 3/4")	Adult Forearm	50mm (2")	305mm (12")	120mm (4 3/4")	184g (6 1/2 oz)
C07646#	70mm (2 3/4")	Adult Forearm	54mm (2 1/8")	307mm (12")	120mm (4 3/4")	174g (6 oz)

**Colours for Automatic and Manual Elbows (for indication only):**



**Adult Manual Elbow**

Adult Elbow with manual control of five locking positions or free swing mode, and friction control over "ball into detent" humeral rotation. The integral forearm has a parallel distal section of 54mm (2 1/8") for wrist placement. Four colour choices. Links proximally to B00230 or B06563 Lateral Rings (see below).

**Note:** # Denotes finish colour. Add **PK** for Pink, **ST** for Tan, **MB** for Mid Brown or **DB** for Dark Brown.

Part Number	Elbow Size (Dia.)	Wrist Diameter	Weight
B10612#	70mm (2 3/4")	54mm (2 1/8")	484g (17 oz)



**Child Friction Elbow**

Child Friction elbow with adjustable friction control of flexion, extension and humeral rotation. Side bars allow attachment of a locally made forearm, and features an integral proximal attachment plate for socket attachment. May also be used as a lightweight friction shoulder joint. Pale/Pink supplied as standard.

Part Number	Elbow Size (Diameter)	Weight
C10828	38mm (1 1/2")	72g (2 1/2 oz)
C10826	45mm (1 3/4")	81g (3 oz)



**Lateral Rings**

Lateral Rings for Manual and Automatic Elbows. External knurl for secure adhesion of laminate and internal thread allowing elbow to be fitted, secured or removed as necessary.

Part Number	Elbow Size (Dia.)	Description	Elbow	Weight
1 B12433	58mm (2 1/4")	Parallel	Automatic	24g (1oz)
B07384	64mm (2 1/2")	Parallel	Automatic	24g (1oz)
B00230	70mm (2 3/4")	Parallel	Automatic or Manual	22g (1oz)
2 B06563	70mm (2 3/4")	5° Taper	Automatic or Manual	26g (1oz)

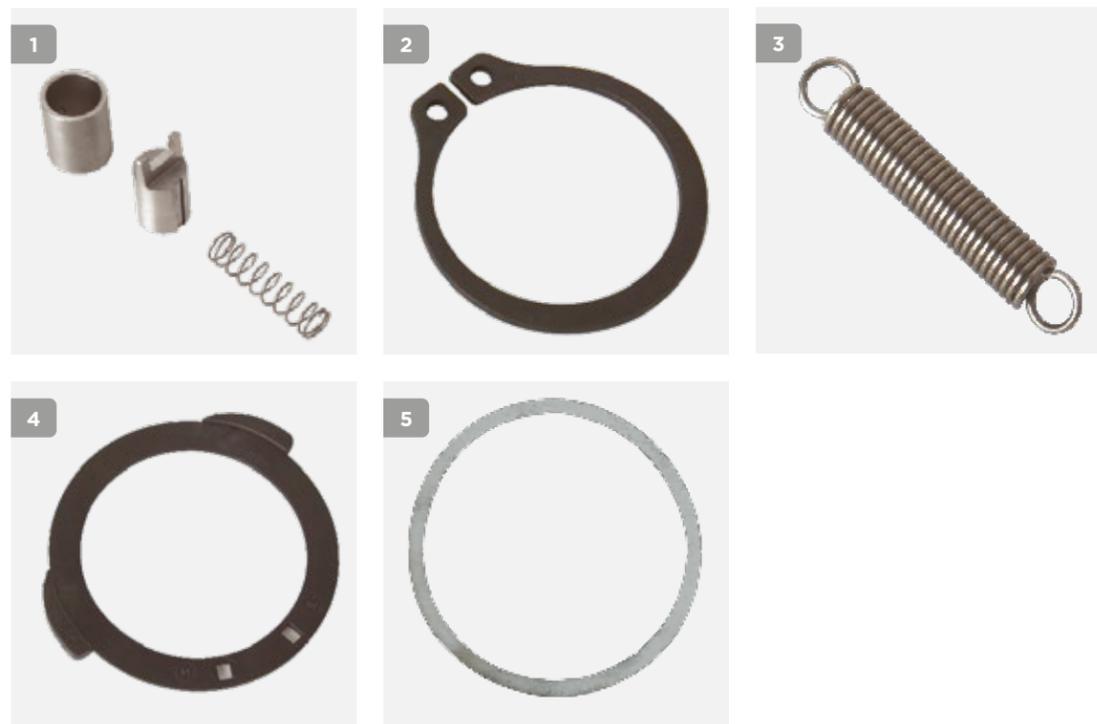


**Elbow Dome**

**Note:** # Denotes finish colour. Add **PK** for Pink, **ST** for Tan, **MB** for Mid Brown or **DB** for Dark Brown. See page 152 for colour indications.

Part Number	Size (Dia.)	Description	Elbow
E20544#	58mm (2 1/4")	Elbow Dome, Slides, 4 Screws	Automatic Elbow
E20517#	64mm (2 1/2")	Elbow Dome, Slides, 4 Screws	Automatic Elbow
E20518#	70mm (2 3/4")	Elbow Dome, Slides, 4 Screws	Automatic Elbow
B05885#	70mm (2 3/4")	Elbow Dome	Manual Elbow

**Automatic Elbow Spare Parts**



Part Number	Description	Elbow	Supplied	
1	E18026	Plunger Assembly	58mm (2 1/4") Automatic Elbow	Each
	E14066	Plunger Assembly	64mm (2 1/2") and 70mm (2 3/4") Automatic Elbow	Each
2	NCR0012	Circlip	58mm (2 1/4") Automatic Elbow	Each
	NCR0003	Circlip	64mm (2 1/2") and 70mm (2 3/4") Automatic Elbow	Each
3	SP800	Cam Return Spring	All sizes Automatic Elbow	Pack of 10
4	B07832	Lateral Operating Ring	58mm (2 1/4") Automatic Elbow	Each
	B07400	Lateral Operating Ring	64mm (2 1/2") Automatic Elbow	Each
	B08642	Lateral Operating Ring	70mm (2 3/4") Automatic Elbow	Each
5	A00711	Spacer Shim 0.10mm	All sizes Automatic Elbow	Each
	A00710	Spacer Shim 0.20mm	All sizes Automatic Elbow	Each
	A00709	Spacer Shim 0.30mm	All sizes Automatic Elbow	Each

**Button Screws**



Part Number	Description	Elbow	
6	A00564	Button Screw	All sizes Automatic Elbow
6a	B05116	Slotted Screw	Manual Elbow
	B10841	Slotted Screw for Child Elbow	Child Friction Elbow
7	A00891	Torsion Socket Spanner for A00564 (1/4" Drive Head)	N/A

## Mechanical Elbow Units and Joints - External Elbow Joints

**Note:** All side steels are supplied individually - not in pairs.



### Automatic Lock Joints

Stainless steel lock joints suitable for prosthetic/orthotic application. May be inverted for manual operation on a forearm. The system incorporates a shoulder shrug operated lock, and a short extension piece below the joint may be used to stabilise the socket. Supplied in matte finish.

Part Number	Description	Length	Joint Head Width	Steel Thickness	
1	C12693	Left Medial - Auto Lock	400mm (15 3/4")	14.4mm (5/8")	2.6mm (1/8") Lower, 3.2mm (1/8") Upper
	C12623	Right Medial - Auto Lock	400mm (15 3/4")	14.4mm (5/8")	2.6mm (1/8") Lower, 3.2mm (1/8") Upper
2	B01197	Left/Right Lateral - Free Swing	400mm (15 3/4")	8.2mm (3/8")	2.6mm (1/8")



### Manual Lock Joints

Manual Lock Joint for flail arm application. Supplied with a series of pre-drilled and M3 tapped holes along the length and with a manually operated release mechanism on the forearm.

Part Number	Description	Length	Joint Head Width	Steel Thickness
C12701	Left Medial - Manual lock	400mm (15 3/4")	14.4mm (5/8")	2.6mm (1/8") Lower, 3.2mm (1/8") Upper
C12696	Right Medial - Manual lock	400mm (15 3/4")	14.4mm (5/8")	2.6mm (1/8") Lower, 3.2mm (1/8") Upper

## Mechanical Elbow Units and Joints - External Elbow Joints

**Note:** All side steels are supplied individually - not in pairs.



### Free Swing Joints

Suitable for long transhumeral prostheses or as guide joints for very short transradial prostheses or for elbow orthoses. These joints are manufactured from stainless steel for increased durability, and fitted with an extension stop at 8°. Supplied unassembled, the joints are riveted at set up.

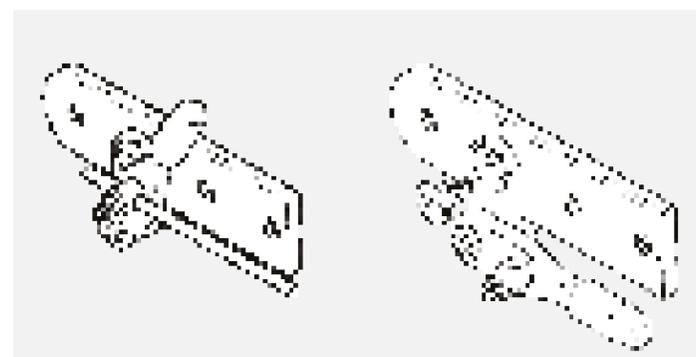
Part Number	Description	Length	Width	Thickness	Boss Diameter
B10168	Plain Joint Left Medial/Right Lateral - Free Swing	353mm (14")	9.5mm (3/8")	1.6mm (1/16")	16mm (5/8")
B07990	Plain Joint Right Medial/Left Lateral - Free Swing	353mm (14")	9.5mm (3/8")	1.6mm (1/16")	16mm (5/8")



### Friction Control Joints

Friction adjustment to allow passive positioning of prosthetic forearm or orthosis. Non-locking. Child application.

Part Number	Description	Length	Width	Thickness	Boss Diameter	
3	B05774	Left Medial - Friction Steel	65mm (6 1/2")	9.5mm (3/8")	1.6mm (1/16")	16mm (5/8")
	B05775	Right Medial - Friction Steel	65mm (6 1/2")	9.5mm (3/8")	1.6mm (1/16")	16mm (5/8")
4	B11263	Left Lateral - Free Swing	65mm (6 1/2")	9.5mm (3/8")	1.6mm (1/16")	16mm (5/8")
	B11264	Right Lateral - Free Swing	65mm (6 1/2")	9.5mm (3/8")	1.6mm (1/16")	16mm (5/8")



### Operating Lever Kit

The Operating Lever Kit is designed to be used with the following joints (C12693, C12623 and C12696), and provides an alternative manual lever release mechanism. The lever release should be situated on the forearm which requires the auto lock steels to be inverted.

Part Number	Description
E21197	Operating Lever Kit

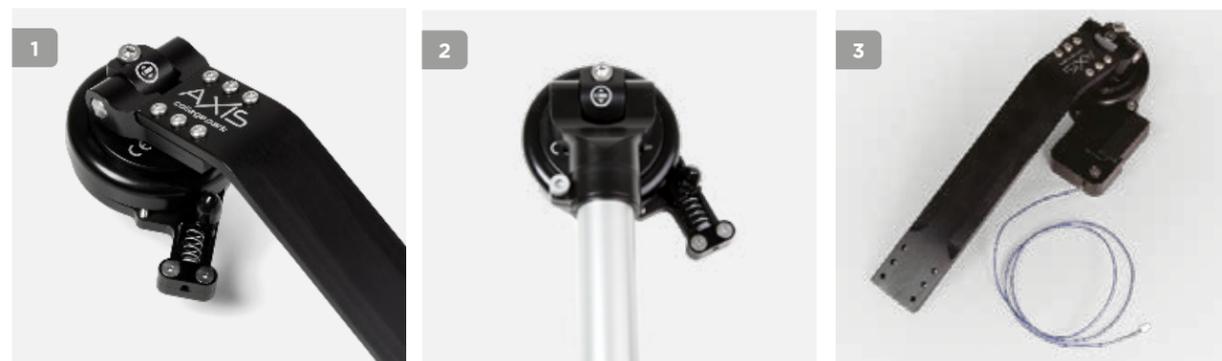
**Axis Shoulder**

The Axis Shoulder from College Park features a friction hinge shoulder joint, which can be locked with simple switches or myoelectric signals simplifying the need for harnessing by removing the need for large body movements.

The shoulder joint provides improved task control and a natural range of motion for ease of the user when carrying out activities of daily living. Able to operate as a free swing joint and provide 240° arc motion to mimic the natural movement of the joint. The Axis Shoulder can be integrated with all upper limb control systems with a special channel to conceal and protect power cables.

Available in 3 options; Exo, Endo for use with all upper limb control systems or electronic with electric lock actuator which can only be used with the Espire Pro or Hybrid, for more information about inputs and Espire Elbow Pro and Hybrid models please see p. 32-35.

**Note:** This product is provided by College Park in the USA and distributed by Steeper across other markets, however may not be available in all regions, please speak to your Steeper representative for more information.



Part Number	Description	Compatibility
1	NSJ90-BK Exo Axis Shoulder*	All upper limb control systems
2	NSJ100-BK Endo Axis Shoulder*	All upper limb control systems
3	NSJ92-BK Axis Electronic Exoskeletal Shoulder with Electronic Lock Actuator	Espire Pro and Hybrid

\* Includes shoulder joint, mounting ring and hardware

**Axis Shoulder Technical Information**

Model	Swing	Locking Positions	Abduction	Weight Limit	Mounting	Weight	Warranty
Exo	240°	25	180°	23kg (50lb)	Exo	290g (10oz)	2 years
Endo	240°	25	180°	23kg (50lb)	Endo	290g (10oz)	2 years
Electronic	240°	25	180°	23kg (50lb)	Exo	318g (11oz)	2 years

**Axis Shoulder Additional Parts**



Part Number	Description
1	NSJ43 Lock Release Kit
2	NSJ45 Nudge Kit
3	NSJ60 3 Spoke Mounting Plate, Black
4	NSJ63 Straight Mounting Plate, Aluminium
5	156365 Espire Elbow Endo Adapter Kit

**Note:** Products 1 - 4 are provided by College Park in the USA and distributed by Steeper across other markets, however may not be available in all regions, please speak to your Steeper representative for more information.