ORTHO INNOVATIONS BRACES





Ortho Innovations' braces featuring Mackie Hinge technology are designed to stretch soft tissue contractures and return the maximum range of motion possible to the joint. The Mackie Hinge features infinitely adjustable angle settings, non-slip static-progressive action, removable knobs for low-profile use and is available in prefabricated and custom braces or alone. Pediatric hinges are also available.



Great for night-time use or adaptable to other prescribed wearing protocols. Incorporated Mackie Hinge technology and features removable knob for lowprofile use and enhanced compliance.

Elbow Brace

Provides incremental stretch to reduce soft tissue contractues of the elbow. Incorporates Mackie Hinge technology and features medial or lateral removable flexion/extention control knob.

Knee Brace

Provides incremental stretch to reduce soft tissue contractures of the knee. Incorporates Mackie Hinge technology and features infinitely adjustable angle settings, non-slip, static-progressive action and removable knobs.

Hip Abduction Orthosis

Minimally intrusive abduction orthosis features adjustable flexion, an ultra low-profile pelvic section and thigh shell that is rigid where it matters and flexible where it counts. Contourable uprights.



Patient survey results and custom brace order forms available at www.cascade-usa.com. In-services available by Ortho Innovations staff. To schedule call 800-888-0865.

ORTHO INNOVATIONS BRACES — Continued

Selection Guide

Prefabric	ated Wrist Brac	e			
Smal	l Medium				
01102	8 OI1030	Left			
01102	9 OI1031	Right			
Size	Measure		Cicrumference	Diameter M-L	Length
Small	Forearm (at ba	nd/strap location)	6.5-9"	2-2.75″	
	Wrist (just prox	kimal to ulnar and radial styloids)	6-8"	1.75-2.5″	
	Hand (across N	IP joints)		2.5-3.25"	
	Distance (radia	l styloid to max brace length)			5″
	Distance (from	ulnar styloid to 5th MP joint)			2.5″
	Distance (from	radial styloid to 2nd MP joint)			4″
Medium	Forearm (at ba	nd/strap location)	9-11"	2.75-3.5"	
	Wrist (just prox	kimal to ulnar and radial styloids)	7.5-10″	2.5-3.125"	
	Hand (across N	IP joints)		3.25-4.25"	
	Distance (radia	l styloid to max brace length)			5″
	Distance (from	ulnar styloid to 5th MP joint)			2.75″
	Distance (from	radial styloid to 2nd MP joint)			4.5″

M-L gauge should be used to take M-L measurements.

Prefabric	ated Elbow Bra	ice			
Small	Medium	Large			
01100	1 011002	OI1003	Left Medial, Right Lateral Knob		
01100	4 OI1005	OI1006	Right Medial, Left Lat	eral Knob	
Size	Measure			Circumference	Diameter M-L
Small	Upper Arm (m	easured 7"/17	.8cm above joint center)	8-11.75" (20.3-29.8cm)	2.5-3.75" (6.4-9.5cm)
	Elbow (measu	red at joint ce	nter)1	8-11.75" (20.3-29.8cm)	2.5-3.75" (6.4-9.5cm)
	Lower Arm (m	easured 7"/17	.8cm below joint center)	5.75-8" (14.6-20.3cm)	1.4-2" (3.8-5.1cm)
Medium	Upper Arm (m	easured 7"/17	.8cm above joint center)	10.25-14.25" (26-36.2cm)	3.25-4.5" (8.3-11.4cm)
	Elbow (measu	red at joint ce	nter)1	10.25-14.25" (26-36.2cm)	3.25-4.5" (8.3-11.4cm)
	Lower Arm (m	easured 7"/17	.8cm below joint center)	6.75-10.5" (17.1-26.7cm)	1.75-2.75" (4.4-7cm)
Large	Upper Arm (m	easured 7"/17	.8cm above joint center)	12.75-16.5" (32.4-41.9cm)	4-5.25" (10.2-13.3cm)
	Elbow (measu	red at joint ce	nter)1	12.75-16.5" (32.4-41.9cm)	4-5.25" (10.2-13.3cm)
	Lower Arm (m	easured 7"/17	.8cm below joint center)	8-11.75" (20.3-29.8cm)	2.5-3.75" (6.4-9.5cm)
			¹ M-L should be taken in li	ne with the humeral condules	and reflect the widest M

¹M-L should be taken in line with the humeral condyles and reflect the widest M-L. Note any swelling for future condyle pad adjustment needs.

.	OI1007L easured 10"/25cm above joint cen	Circumference (12.75-16.5" (32.4-41.9cm)	Diameter M-L
per Thigh (m	easured 10"/25cm above joint cen		
.	easured 10"/25cm above joint cen	nter) 12.75-16.5" (32.4-41.9cm)	4 = 2E'' (10 - 2.12 - 2cm)
e (measurec		,	4-5.25 (10.2-15.5011)
	at knee center) ²	11.75-14.5" (29.8-36.9cm)	3.75-4.5" (9.5-11.4cm)
ver Calf (mea	asured 10"/25cm below joint cente	er) 8-11.75" (20.3-29.8cm)	2.5-3.75" (6.4-9.5cm)
per Thigh (m	easured 10"/25cm above joint cen	iter) 18-21" (45.7-3.3cm)	5.75-6.5" (14.6-16.5cm
e (measured	l at knee center) ²	15-17" (38.1-43.2cm)	5-5.5" (1214cm)
ver Calf (mea	asured 10"/25cm below joint cente	er) 9.5-12.5 (24.1-31.8cm)	3-4" (7.7-10.1cm)
per Thigh (m	easured 10"/25cm above joint cen	iter) 21-24" (53.3-61cm)	6.5-7.5" (16.5-19cm)
e (measured	l at knee center) ²	17-20" (43.2-50.8cm)	5.5-6.25" (14-15.8cm)
ver Calf (mea	asured 10"/25cm below joint cente	er) 12.75-16.5" (32.4-41.9cm)	4-5.5" (10.2-13.3cm)
	e (measured ver Calf (mea ber Thigh (mea ee (measured	ee (measured at knee center) ² ver Calf (measured 10"/25cm below joint center per Thigh (measured 10"/25cm above joint center re (measured at knee center) ² ver Calf (measured 10"/25cm below joint center	we (measured at knee center) ² 15-17" (38.1-43.2cm) ver Calf (measured 10"/25cm below joint center) 9.5-12.5 (24.1-31.8cm) ver Thigh (measured 10"/25cm above joint center) 21-24" (53.3-61cm) we (measured at knee center) ² 17-20" (43.2-50.8cm)

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ORTHO INNOVATIONS BRACES — Continued

Selection Gu	ide — Contir	nued			
Hip Abductio	on Orthosis (HAO)			
Pelvic Assem	ıbly, One Size				
Left	Right				
OI1013	011014				
Thigh Assem	nbly				
Small	Medium	Large			
OI1015	011017	OI1019	Left		
OI1016	OI1018	OI1020	Right		
Size				Proximal	Distal
Small				15-22" (38.1-55.88cm)	13-19" (33.02-48.26cm)
Medium				18-25" (45.72-63.5cm)	15-21" (38.1-53.34cm)
Large				21-27" (53.34-65.58cm)	17-23" (43.18-58.42cm)

Initial fitter is required to be proficient at bending metal. (Bending irons required, not included). Patient should be fit laying down, unless otherwise instructed by physician. Measure thigh circumference at proximal and distal levels to determine size for thigh assembly.

Measure waist circumference. This product will fit a patient with a waist circumference from 32-65".

Replacement Soft Goods Kit				
Item No.	Description			
0110015GK	Soft Goods Kit, Elbow, Small			
0I1002SGK	Soft Goods Kit, Elbow, Medium			
0I10035GK	Soft Goods Kit, Elbow, Large			
OI10075GK	Soft Goods Kit, Knee (Medium)			

Mackie Hinge Only				
Item No.	Description	Extended Description	Dimensions	
012023	Knee Hinge	Straight Geared Hinge with 2.75" Knob	.18″ x .58″ x 28″	
012029	Elbow Hinge	Straight Geared Hinge with 2" Knob	.18″ x .58″ x 28″	
012024	Elbow Hinge	Striaght Idler Hinge	.125" x .58" x 28	
012025	Pediatric Hinge	Straight Geared Hinge with 2" Knob	.187" x .58" x 18"	
012026	Pediatric Hinge	Straight Idler Hinge	.125" x .58" x 18"	