



We offer a large range of wrist units, in child and adult sizes, offering different functions to suit each individual user.

Where regular interchange of a terminal device or a lock is required, the Heavy Duty Wrist or Child 2-Knob Wrist provides a reliable and durable choice.

The Friction Wrist allows user-adjustable friction control and rotation in a lightweight design, while the Fixed, Oval and Round Connectors provide a simple and effective solution for cosmetic limbs.

A comprehensive range of hand plates and adapter plates is available to satisfy all our products, as well as selected terminal devices from other manufacturers.

- Upper Limb Prosthetics
- Ordering Information
- Myoelectric Hands
- Myoelectric Elbows
- Myoelectric Power & Inputs
- Cable Operated & Spring Hands
- Functional Devices
- Cosmetic Hands & Gloves
- Modular Arm Systems
- Wrist Units**
- Mech. Elbow Units & Joints
- Suspension & Control Systems
- Materials & Tools

- Upper Limb Prosthetics
- Ordering Information
- Myoelectric Hands
- Myoelectric Elbows
- Myoelectric Power & Inputs
- Cable Operated & Spring Hands
- Functional Devices
- Cosmetic Hands & Gloves
- Modular Arm Systems
- Wrist Units**
- Mech. Elbow Units & Joints
- Suspension & Control Systems
- Materials & Tools



### Heavy Duty Wrist Unit

The Heavy Duty Wrist is an easy to maintain unit which provides quick and easy interchanging of the terminal device. It has 12 lockable positions of rotation giving the user improved control and dexterity to complete functional tasks. Available in 2 sizes. When used with one of a variety of hand/adaptor plates, this wrist allows rotation to be free or controlled.

Part Number	Size	Description	Weight	Height
SP249	50mm (2")	Quick release, lock, 12 position rotation	69g (2 1/2 oz)	27mm (1")
B01155	54mm (2 1/8")	Quick release, lock, 12 position rotation	69g (2 1/2 oz)	27mm (1")



### Wrist Housing - Parallel

The Heavy Duty Wrist Housing is used to secure the Heavy Duty Wrist within the forearm. These housings are available in a range of sizes to suit the desired wrist dimensions and forearm profile.

Part Number	Size	Description	Weight	Height
B00573	50mm (2")	Parallel, bonded into forearm	14g (1/2 oz)	25mm (1")
B00572	54mm (2 1/8")	Parallel, bonded into forearm	20g (3/4oz)	25mm (1")



### Wrist Housing - Tapered

The Heavy Duty Wrist Housing is used to secure the Heavy Duty Wrist within the forearm. These housings are available in a range of sizes to suit the desired wrist dimensions and forearm profile.

Part Number	Size	Description	Weight	Height
B00825	50mm (2")	3° taper, laminated into forearm	21g (1oz)	38mm (1 1/2")
B00827	54mm (2 1/8")	3° taper, laminated into forearm	28g (1 oz)	38mm (1 1/2")
B00826	54mm (2 1/8")	6° taper, laminated into forearm	28g (1 oz)	38mm (1 1/2")



### Hand Connection Plate

For Heavy Duty Wrists; a plain base connection plate for cosmetic and mechanical hands.

**Note:** Both B01172 and B01179 are also compatible with the Ottobock fastening arrangement.

Part Number	Size	Description	Weight	Height
B01179	50mm (2" x 3/4" x 1/2")	2" Heavy Duty Wrist	50g (1 3/4 oz)	31mm (1 1/4")
B01172	54mm (2 1/8" x 3/4" x 1/2")	2 1/8" and 2 1/2" Heavy Duty Wrist	56g (2 oz)	31mm (1 1/4")

## Wrist Units - Heavy Duty Wrist

### Adapter Plates - Flat

Flat adapter plate compatible with a variety of Heavy Duty Wrist sizes.



Part Number	Size	Description	Compatible With	Weight	Height	
1	B00967	50mm (2" x 3/4" x 1/2")	3/8" BSW (UK Thread Internal)	50mm (2") Heavy Duty Wrist	42g (1 1/2 oz)	34mm (1 3/8")
	B00900	54mm (2 1/8" x 3/4" x 1/2")	3/8" BSW (UK Thread Internal)	54mm (2 1/8") Heavy Duty Wrist	46g (15/8 oz)	34mm (1 3/8")
2	B06568	50mm (2" x 3/4" x 1/2")	1/2" x 20TPI (US Thread Internal)	50mm (2"), 54mm (2 1/8") Heavy Duty Wrist	52g (13/4 oz)	49mm (2")
3	B22264	54mm (2 1/8" x 3/4" x 1/2")	M12 (European Thread Internal)	54mm (2 1/8") Heavy Duty Wrist	60g (2 oz)	53mm (2")



### Adapter Plates - Domed

Domed adapter plate compatible with the 54mm (2 1/8") Heavy Duty Wrist.

Part Number	Size	Description	Compatible With	Weight	Height	
4	B00965	54mm (2 1/8" x 3/4" x 1/2") Allows free rotation <u>with</u> lock feature	3/8" BSW (UK Thread Internal)	54mm (2 1/8") Heavy Duty Wrist	55g(115/16oz)	29mm (1")
5	B00966	54mm (2 1/8" x 3/4" x 1/2") Allows free rotation <u>without</u> lock feature	3/8" BSW (UK Thread Internal)	54mm (2 1/8") Heavy Duty Wrist	60g (2 oz)	31mm (1")

## Wrist Units - Heavy Duty Wrist Spare Parts

### Heavy Duty Wrist Unit - Spare Parts



Part Number	Description	Compatible With	Supplied	
6	E17985	Operating Knob Kit 2", 2 1/8"	50mm, 54mm (2", 2 1/8") Heavy Duty Wrists	Each
7	B05435	Sliding Cover - Parallel	All Heavy Duty Wrists	Each
	B05368	Sliding Cover - Tapered	All Heavy Duty Wrists	Each
8	NPN0217	Locking Mills Pin	All Heavy Duty Wrists	Each
9	B00748	Rubber Locking Ring	All Heavy Duty Wrists	Each
10	B00744	Snap Catch Blade	All Heavy Duty Wrists	Each
11	B00746	Catch Blade Spring	All Heavy Duty Wrists	Each
12	NPN0007	Split Pin	All Heavy Duty Wrists	Each
13	B00745	Plug	All Heavy Duty Wrists	Each
14	B18631	Assembly Removal Tool	All Heavy Duty Wrists	Each

## Wrist Units - Child's 2-Knob Wrist



### Child's 2-Knob Wrist Unit

Where regular interchange of a terminal device, rotation, or a lock is required, the Child's 2-Knob Wrist provides a durable unit that can be easily maintained. Commonly used alongside cosmetic and mechanical hands. A comprehensive range of hand and adapter plates are available to allow rotation with a locking feature (see below). Supplied with parallel housing and three screws.

Part Number	Wrist Size	Description	Weight	Height
B05143	40mm (1 1/2")	(Copper) Quick release, lock, 12 position rotation	56g (2 oz)	33mm (1 1/3")
B05142	45mm (1 3/4")	(Black) Quick release, lock, 12 position rotation	81g (3 oz)	33mm (1 1/3")
NSC0375	40mm (1 1/2") + 45mm (1 3/4")	Replacement Screws		



### Child's 2-Knob Wrist Hand Plate

The Child's 2-Knob Wrist Hand Plate fits a wide variety of terminal devices to ensure that this wrist is compatible with most fittings. Can be used with cosmetic and mechanical hands.

Part Number	Wrist Size	Description	Weight	Height
B07030	40mm (1 1/2" x 1/2" x 3/8")	1 1/2" Child 2-Knob Rotary	25g (1 oz)	24mm (1")
B07029	45mm (1 3/4" x 1/2" x 3/8")	1 3/4" Child 2-Knob Rotary	31g (1 oz)	24mm (1")



### Child's 2-Knob Wrist Adapter Plate

The Child's 2-Knob Wrist Adapter Plate fits a wide variety of terminal devices with a threaded Stem to ensure that this wrist is compatible with most fittings.

Part Number	Wrist Size	Internal Thread	Weight	Height
B00897	40mm (1 1/2" x 1/2" x 3/8")	5/16" BSF (UK Juvenile Standard)	20g (3/4oz)	27mm (1")
B00821	45mm (1 3/4" x 1/2" x 3/8")	5/16" BSF (UK Juvenile Standard)	27g (1 oz)	27mm (1")
B00905	45mm (1 3/4" x 1/2" x 3/8")	3/8" BSW (UK Adult Standard)	43g (1 1/2 oz)	38mm(13/16")

## Wrist Units - Lightweight Friction Wrist



### Lightweight Friction Wrist

Available in child, juvenile, adolescent and adult sizes, the Lightweight Friction Wrist allows user-adjustable friction control and rotation in a lightweight design. By pulling back the protective ring it is possible to interchange terminal devices.

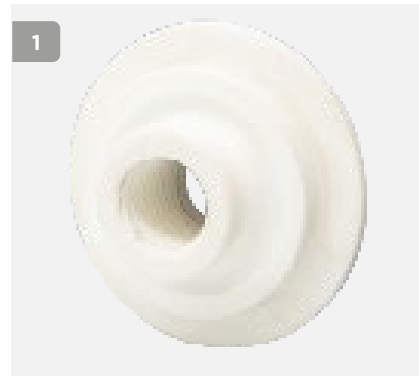
Part Number	Wrist Size	Application	Weight	Height
C19011	40mm (1 1/2")	Child	33g (1oz)	32mm (1 1/2")
C12848	45mm (1 3/4")	Child/Juvenile	39g (1oz)	32mm (1 1/4")
C12810	50mm (2")	Adolescent/Adult	50g (1 3/4 oz)	33mm (1 1/4")
C12824	54mm (2 1/8")	Adult	57g (2 oz)	33mm (1 1/4")



### Friction Wrist - Spare Parts

Part Number	Size	Description	Supplied
1	C18132	40mm (1 1/2")	Friction Ring
	B12852	45mm (1 3/4")	Friction Ring
	B12815	50mm (2")	Friction Ring
	B12821	54mm (2 1/8")	Friction Ring
2	B18133	40mm (1 1/2")	Protective Ring
	B12850	45mm (1 3/4")	Protective Ring
	B12813	50mm (2")	Protective Ring
	B12819	54mm (2 1/8")	Protective Ring

## Wrist Units - Lightweight Friction Wrist



### Friction Wrist Adapter Plate

Friction Wrist Adapter Plate allows for locking, friction, free, and interrupted control over rotation of a terminal device with a threaded Stem.

Part Number	Wrist Size	Internal Thread	Weight	Height	
<b>1</b>	B18161	40mm (1 1/2")	5/16" BSF (UK Juvenile Standard)	9g (1/3 oz)	14mm (1/2")
	B22959	40mm (1 1/2")	M12 x 1.5 (European Standard)	11g (1/3 oz)	18mm (3/4")
<b>1a</b>	B19639	40mm (1 1/2")	1/2" x 20 TPI (US Standard)	9g (1/3 oz)	18mm (3/4")
	B18169	45mm (1 3/4")	5/16" BSF (UK Juvenile Standard)	15g (1/2 oz)	18mm (3/4")
	B18170	45mm (1 3/4")	3/8" BSW (UK Adult Standard)	15g (1/2 oz)	18mm (3/4")
	B18171	45mm (1 3/4")	M12 x 1.5 (European Standard)	12g (1/2 oz)	18mm (3/4")
	B18172	45mm (1 3/4")	1/2" x 20 TPI (US Standard)	11g (1/2 oz)	18mm (3/4")
	B18173	50mm (2")	3/8" BSW (UK Adult Standard)	17g (1/2 oz)	18mm (3/4")
	B18174	50mm (2")	M12 x 1.5 (European Standard)	17g (1/2 oz)	18mm (3/4")
	B18175	50mm (2")	1/2" x 20 TPI (US Standard)	15g (1/2 oz)	18mm (3/4")
	B18176	54mm (2 1/8")	3/8" BSW (UK Adult Standard)	20g (3/4 oz)	18mm (3/4")
	B18177	54mm (2 1/8")	M12 x 1.5 (European Standard)	19g (1/2 oz)	18mm (3/4")
	B18178	54mm (2 1/8")	1/2" x 20 TPI (US Standard)	19g (1/2 oz)	18mm (3/4")



### Friction Wrist Hand Connection Plates (no inserts)

For fitting with plain based cosmetic foam hands.

Part Number	Wrist Size	Weight	Height
B18165	40mm (1 1/2")	6g (1/8 oz)	8mm (3/8")
B18215	45mm (1 3/4")	9g (1/8 oz)	8mm (3/8")
B12811	50mm (2")	17g (1/2 oz)	8mm (3/8")
B12817	54mm (2 1/8")	19g (5/8 oz)	8mm (3/8")

## Wrist Units - Lightweight Friction and Short Wrist



### Friction Wrist Hand Connection Handplate

Friction Wrist Hand Connection Handplate for Steeper Myoelectric, Spring Operated, and Cable Operated Hands

Part Number	Wrist Size	Weight	Height
KFW045	45mm (1 3/4")	14g (1/2 oz)	9mm (3/8")
KFW050	50mm (2")	16g (1/2 oz)	9mm (3/8")
KFW054	54mm (2 1/8")	20g (3/4 oz)	9mm (3/8")



### Friction Wrist Housing

The Friction Wrist Housing can be used as a stand alone wrist and can be mounted directly into the forearm and provides friction control over the rotation of the wrist which is pre-set via an adjustment screw. Available in a variety of wrist diameters and threaded stem sizes.

Part Number	Description	Thread	Weight	Height
NHD55108	Friction Housing 40mm (1 1/2")	Internal Thread 1/2" UNF x 20 TPI	16g (3/4 oz)	16mm (5/8")
NHD55109	Friction Housing 45mm (1 3/4")	Internal Thread 1/2" UNF x 20 TPI	23g (3/4 oz)	16mm (5/8")
NHD55110	Friction Housing 50mm (2")	Internal Thread 1/2" UNF x 20 TPI	30g (1 oz)	16mm (5/8")
NHD55108-M12	Friction Housing 40mm (1 5/8")	Internal Thread M12	22g (3/4 oz)	16mm (5/8")
NHD55109-M12	Friction Housing 45mm (1 3/4")	Internal Thread M12	22g (3/4 oz)	16mm (5/8")
NHD55110-M12	Friction Housing 50mm (2")	Internal Thread M12	31g (1 oz)	16mm (5/8")



### Short Wrist

Providing the shortest build height, the Short Wrist can be used as a stand alone wrist and can be mounted directly into the forearm. BBSW50 and BBSW45 allow for the terminal device to be easily disengaged. These devices provide friction control over the rotation of the wrist which is pre-set via an adjustment screw. Available in a variety of wrist diameters and threaded stem sizes.

Part Number	Size	Description	Weight	Height
BBSW45	45mm (2")	1/2" x 20 TPI Internal Thread	18g (1 oz)	10mm (3/8")
BBSW50	50mm (2")	1/2" x 20 TPI Internal Thread	22g (3/4 oz)	10mm (3/8")
BBSW50-M12	50mm (2")	M12 Internal Thread	22g (3/4 oz)	10mm (3/8")

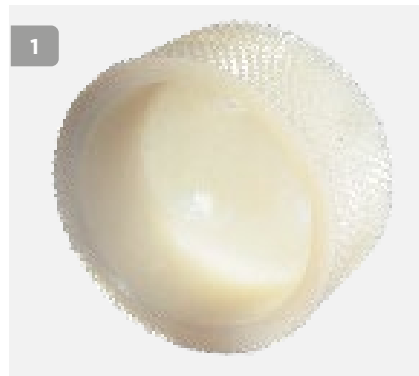
## Wrist Units - Wooden and Fixed Wrists



### Wooden Fixed Wrist

A lightweight wooden wrist that can be modified to produce a bespoke wrist profile. Commonly used alongside a cosmetic hand to create a lightweight prosthesis.

Part Number	Size	Description	Weight	Height
N621020100	60mm (2 3/8")	M12 thread. Parallel, bonded into forearm	40g (1 1/2")	36mm(127/64")



### Fixed Wrist Connector and Former - Round

Commonly used in the manufacture of lightweight cosmetic devices, the Fixed Wrist allows the bonding of a Steeper cosmetic hand to a custom forearm. The wrist former allows the fixed wrist connector to be retrofitted once an outer laminate forearm has been manufactured.

The round fixed wrist connector is also compatible with the Multi-Axial Wrist Housing and Free Flexion Ball Insert (p.109), providing an exoskeletal wrist with variable friction control over rotation, flexion and extension.

Fixed Wrist Part Number	Former Part Number	Wrist Size	Weight	Height
<b>1</b> B05963	<b>2</b> SB12136/1	40mm (1 1/2")	7g (1/4 oz)	16mm (5/8")
B05441	SB12136/2	45mm (1 3/4")	9g (5/16 oz)	19mm (3/4")
B05440	SB12136/3	50mm (2")	11g (3/8 oz)	19mm (3/4")
B05439	SB12136/4	54mm (2 1/8")	13g (1/2 oz)	19mm (3/4")

## Wrist Units - Fixed Wrist and Hand Plates



### Fixed Wrist Connector and Former - Oval

Commonly used in the manufacture of lightweight cosmetic devices, the Fixed Wrist allows the bonding of a Steeper Cosmetic Hand to a custom forearm. The wrist former allows the fixed wrist connector to be retrofitted once an outer laminate forearm has been manufactured.

Fixed Wrist Part Number	Wrist Size	Weight	Height	Former Part Number
<b>3</b> B06252	45mm (1 3/4")	7g (1/4 oz)	22mm (3/4")	<b>4</b> B06986
B06256	50mm (2")	10g (3/8 oz)	22mm (3/4")	B06985
B06255	54mm (2 1/8")	13g (1/2 oz)	32mm (1 1/4")	B06984



### Hand Plate - North American - 1/2"

For use with Foam Hand with Oval base (2 1/2" - 3 3/4").

1. Is used with Steeper foam hand with round interface.
2. Is used with foam hand with oval wrist exposed.

Part Number	Wrist Size	External Thread	Shape	Weight	Height
<b>1</b> B10530	40mm	1/2" x 20 TPI	Round - Steeper Hand Attachment	10g (1/3 oz)	26mm (1")
B22758	40mm	1/2" x 20 TPI	Round - Ottobock Hand Attachment	14g (1/2 oz)	26mm (1")
B22757	45mm	1/2" x 20 TPI	Round - Steeper Hand Attachment	13g (1/2 oz)	26mm (1")
B22756	50mm	1/2" x 20 TPI	Round - Steeper Hand Attachment	16g (1/2 oz)	26mm (1")
B22755	54mm	1/2" x 20 TPI	Round - Steeper Hand Attachment	17g (2/3 oz)	26mm (1")

Both B22757, B22756 and B22755 are also compatible with Ottobock fastening arrangement.

<b>2</b> B06257	45mm	1/2" x 20 TPI	Oval	9g (3/8 oz)	20mm (3/4")
-----------------	------	---------------	------	-------------	-------------



### Hand Plate - European - M12

For use with cosmetic and mechanical hands with a round interface.

Part Number	Wrist Size	External Thread	Shape	Weight	Height
B22768	40mm (1 1/2" x 3/4" x M12)	M12 x 1.5	Round	11g (1/2 oz)	18mm(3/4")
B07786	45mm (1 3/4" x 3/4" x M12)	M12 x 1.5	Round	32g (1 oz)	20mm(3/4")
B06942	50mm (2" x 3/4" x M12)	M12 x 1.5	Round	43g (1 1/2 oz)	20mm(3/4")

Both B06942 and B07786 are also compatible with Ottobock fastening arrangement.