



TRS

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Hands, Prehensors & Paediatric Feet



Infant & Paediatric Hands

Greek Series

Durable infant hand constructed using soft polymer in a unisex style. They have realistic finger and hand features, and come in three models to reflect the development of a child's hand. The design and shape of the hand means they can be used to hold very light objects, such as plastic toys or dummies, and assist young infants as they become mobile.



| Part Number | Model |
|------------------------|-------|
| NALPHA- [Tan] - [Dark] | Alpha |
| NBETA- [Tan] - [Dark] | Beta |
| NGAMMA- [Tan] - [Dark] | Gamma |

[Tan] = LEFT or RIGHT
[Dark] = Colour (Tan = T, Medium Brown = MB, Dark Complexion = DK)

- Features**
- Easy to clean
 - Elastic, flexible holding capability with no cable required
 - ½" x 20TPI removable threaded stud

- Application**
- All levels of upper limb absence
 - Ages 4 months to 3 years old

Technical Information

| Model | Alpha | Beta | Gamma |
|---------------|-------------|--------------|--------------|
| Application | 4-12 months | 10-24 months | 20-36 months |
| Length | 5cm | 6.4cm | 7cm |
| Width | 4cm | 4.5cm | 4.8cm |
| Grasp-Opening | 3.8cm | 4.3cm | 4.6cm |
| Base Diameter | 3.3cm | 3.7cm | 3.7cm |
| Weight | 40g | 45g | 48g |



Infant & Paediatric Hands

Infant 2 Hand



The Infant 2 is a passive prosthetic hand, suitable for infants beginning to crawl or walk. The unique 'cup' shape of the palmar surface aids in pulling and pushing objects, whilst the flexible, durable polymer material is ideal for bi-lateral applications as it enables a grasping action.



| Part Number |
|-------------------------|
| NINFANT2- [Side] [Dark] |

[Side] = Side (L = Left, R = Right)
[Dark] = Colour (Tan = T, Medium Brown = MB, Dark Complexion = DK)

- Features**
- No cable required
 - Soft material for ambulating infants
 - Easy to clean
 - Realistic finger and thumb design features
 - ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

- Application**
- Infants aged 6-18 months
 - All levels of upper limb absence

Technical Information

| | |
|---------------------|-------|
| Length | 6.6cm |
| Width | 5cm |
| Weight | 57g |
| Wrist Diameter | 3.8cm |
| Wrist Circumference | 10cm |

L'il E-Z Hand

A functional child's hand with a mechanical thumb component built into the flexible design. The thumb can be opened easily to allow objects to be held, but has a resistance to prevent a loss of grasp. Suitable for infants beginning to crawl, as well as bilateral control and unilateral manipulation.

| Part Number |
|-------------|
| NEZIN - |

= Side (L = Left, R = Right)
 = Colour (Tan = T, Medium Brown = MB, Dark Complexion = DK)

Technical Information

| | |
|---------------------|-------------|
| Length | 6.6cm |
| Width | 4.6cm |
| Weight | 85g |
| Opening | 2.5 - 3.8cm |
| Wrist Diameter | 3.3cm |
| Wrist Circumference | 10.4cm |



Features

- No glove required
- Designed to look like the anatomical hand
- Three colour options available
- ½" x 20TPI removable threaded stud

Application

- Infants aged 6-24 months old
- Transradial and transhumeral applications

Adept Prehensors



The Adept Prehensors are a lightweight, voluntary closing terminal device. Suitable for young children up to young teens, the Adepts are capable of gripping objects firmly. This enables children to take part in activities that require a varied grip force - for example riding a bike, climbing, drawing, assembling toys and tying their shoelaces.

| Part Number | Model |
|-------------|----------|
| NADF3 - | Adept F3 |
| NADE4 - | Adept E4 |
| NADC2 - | Adept C2 |
| NADB1 - | Adept B1 |

= Colour (T = Tan, MB = Medium Brown, DK = Dark Complexion, BK = Stealth Black*) *Stealth Black not available for F3 model

Technical Information

| Model | Adept F3 | Adept E4 | Adept C2 | Adept B1 |
|----------------|-----------|-----------|-----------|----------------------|
| Application | 1-3 years | 3-5 years | 5-9 years | 9 years - young teen |
| Length | 6.8cm | 8cm | 8.9cm | 10.8cm |
| Width | 2.5cm | 2.7cm | 2.7cm | 3cm |
| Weight | 49g | 66g | 83g | 114g |
| Wrist Diameter | 2.7cm | 3cm | 3.3cm | 3.8cm |
| Opening | 3.2cm | 4cm | 5.1cm | 6.3cm |



Features

- Active muscle use and sensory feedback
- Replaceable thumb sleeve
- Accessories include the Adept Cable Adapter (p.29)
- Constructed using durable, high-strength moulded polyurethane
- Four colour options available
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Application

- Children aged 1-9 through to young teens
- Transradial and transhumeral

Lite Touch Biomechanical Paediatric Hands

A biomechanical hand with a high-efficiency voluntary closing action, available in three sizes to accommodate a child's development. The fingers have been anatomically designed to ensure a non-slip grasp, and compliance with objects/surfaces for everyday activities.

| Part Number | Model |
|-------------|--------|
| NMLT - | Micro |
| NLTSM - | Small |
| NLTMD - | Medium |
| NLTLG - | Large |

= Side (L = Left, R = Right)
 = Colour (T = Tan, MB = Medium Brown, DK = Dark Complexion)

Technical Information

| Model | Micro | Small | Medium | Large |
|---------------------|-----------|-----------|-----------|----------------------|
| Application | 2-3 years | 2-5 years | 5-9 years | 9 years - young teen |
| Length | 6.6cm | 8.3cm | 9.2cm | 10.8cm |
| Width | 4.8cm | 5.7cm | 6cm | 6.6cm |
| Weight | 74g | 101g | 153g | 207g |
| Wrist Diameter | 3.3cm | 3.8cm | 4.4cm | 4.4cm |
| Opening | 2.8cm | 4cm | 4.8cm | 5.6cm |
| Wrist Circumference | 10.2cm | 12cm | 14cm | 14cm |



Features

- Anatomical design with moulded features
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Application

- Children aged 2-9 through to young teens
- Transradial and transhumeral applications

Little Feet Wood Core & Symes Model

The Little Feet passive prostheses are ideal for crawling and walking infants. The bolt-on SACH-type design provides unique energy dynamics and flexible toes, adding to the enhanced realism and aesthetic appearance. To aid barefoot cosmesis, all models come with removable heel plug.

| Part Number | Model |
|--------------------|-----------|
| NLITTLE- - | Wood Core |
| NLITTLE- -SYMES- - | Symes |

= Size in cm (10, 11, 12, 13, 14 or 15)
 = Side (L = Left, R = Right)
 = Colour (T = Tan, MB = Medium Brown, DK = Dark Complexion)

Technical Information

| Model | 10cm | 11cm | 12cm | 13cm | 14cm | 15cm |
|------------------|-------|-------|-------|-------|-------|-------|
| Length | 10cm | 11cm | 12cm | 13cm | 14cm | 15cm |
| Width | 4.7cm | 5.2cm | 5.6cm | 5.9cm | 6.2cm | 6.4cm |
| Height | 4.2cm | 4.2cm | 5cm | 5.2cm | 5.6cm | 5.6cm |
| Diameter (Major) | 4.4cm | 4.9cm | 5.3cm | 5.6cm | 5.8cm | 5.7cm |
| Diameter (Minor) | 4cm | 4.3cm | 4.8cm | 4.8cm | 4.9cm | 4.9cm |
| Wood Core dia. | 3.2cm | 3.8cm | 3.8cm | 3.8cm | 3.8cm | 5.8cm |
| Weight | 96g | 117g | 167g | 199g | 238g | 264g |



Features

- 8mm diameter mounting hole
- ⅝" x 2" bolt, M8 bolt, steel washer, and T nut mounting hardware on all models, 2 ¾" bolt also included with 12-15cm models
- Fibreglass keel on all Symes models, and sizes 13-15cm on Wood Core model
- Oval-shaped proximally to create a connection point with an anatomical appearance

Application

- Infants aged 6 months, up to children aged 5-6 years old
- Transtibial and transfemoral

Lite Touch Biomechanical Adult Hands

Adult's biomechanical hand with high-efficiency voluntary closing action, available in three colour options. The fingers have been anatomically designed to ensure a non-slip grasp, and compliance with objects/surfaces for everyday activities.

| Part Number |
|-------------------------------|
| NLTAD <div></div> <div></div> |

- = Side (L = Left, R = Right)
- = Colour (T = Tan, MB = Medium Brown, DK = Dark Complexion)

Technical Information

| | |
|---------------------|--------|
| Length | 12cm |
| Width | 7.1cm |
| Weight | 284g |
| Opening | 6.9cm |
| Wrist Diameter | 4.6cm |
| Wrist Circumference | 14.4cm |

Please note: The Sure-Lok Cable Lock System is recommended for use with TRS voluntary-opening and voluntary-closing devices - please see page 28 for details.

Grip Prehensors

Grip Prehensors are a high-performance body-powered device, capable of a wide range of prehension - from delicate manipulations to maximum gripping power. Their voluntary closing design allows users to carry out a variety of everyday tasks and vocations, including peeling and slicing vegetables, using a wrench, or weight lifting. They are a high-strength, durable construction, which requires minimal maintenance.

| Part Number | Model |
|----------------------|----------|
| NGP2SSS | Grip 2SS |
| NGP2S00 | Grip 2S |
| NSTG300R <div></div> | Grip 3 |
| NGP1000 | Grip 1 |

- = Colour (T = Tan, B = Black)

Technical Information

| Model | Grip 2SS | Grip 2S | Grip 3 | Grip 1* |
|----------------|-----------------|----------|---|-------------------------------------|
| Material | Stainless steel | Titanium | Titanium, stainless steel, polyurethane gripping surfaces | Stainless steel with aluminium core |
| Length | 14.1cm | 14.1cm | 14.5cm | 16.5cm |
| Width | 1.6cm | 1.6cm | 1.6cm | 1.3cm |
| Weight | 390g | 312g | 278g | 451g |
| Wrist Diameter | 4.1cm | 4.1cm | 4.1cm | 4.4cm |
| Opening | 7.5cm | 7.5cm | 7.1cm | 6.6cm |



Features

- Anatomical design and moulded features
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Application

- Teenagers to adults
- Transradial and transhumeral applications



Features

- Range of gripping force can exceed 45kg
- ½" x 20TPI
- Can be ordered with Special Wrist Adapter for partial hand or with a Flex Wrist. Contact your Steeper Product Manager for more information
- Can be modified with locking pin, see page 7 for more details

Application

- 11 years old and up
- Transradial and transhumeral

*Specialist cases, for adult use only

Locking Pin

A simple to install stainless steel pin with ball detent and a 1" diameter finger ring. With more than one locking position possible, they can be used with the Grip Prehensors to carry out a variety of activities where manual locking and unlocking of the terminal device is desired.

Features

- Suitable for use with Grip Prehensors (p.6)
- Instructions for modifying Prehensors included (please note modified grips are non-returnable)



| Part Number |
|-------------|
| NALPIN3 |

Grip 5 Evolution Prehensor

Improved colour and design configuration options make the Grip 5 Evolution highly cosmetic along with being a lightweight, functional and intuitive prosthesis. The Grip 5 is a voluntary closing device with an opening of 7.8cm, and directly proportional gripping control which is fed-back to the user.

| Part Number |
|-------------|
| NGP5000* |

*Please use the Grip 5 Order Form to specify device colours when ordering - available upon request from Customer Services.

Technical Information

| | |
|----------------|------------------|
| Application | 11 years - adult |
| Length | 13.2cm |
| Width | 2.5 - 4.3cm |
| Wrist Diameter | 4.3cm |
| Opening | 7.8cm |
| Weight | 255g |



Features

- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)
- Injection moulded outer shell, index finger and thumb, and self-adhesive inlays can all be customised with the patients colours of choice - please see the Grip 5 Evolution Prehensor Order form for more details and colour options (available upon request from Steeper Customer Services)
- Aluminium and stainless steel core construction

Jaws Voluntary Opening Prehensor

Jaws is a heavy-duty terminal device, capable of controlling tools, handles and construction equipment, as well as being functional for work and recreational vehicle control. Features a shift-lever for four different levels of easy gripping force adjustment, and a radial-ulnar, friction-adjustable wrist pivot.

| Part Number |
|-------------|
| NJAWS-TD |

Technical Information

| | |
|-----------|---|
| Length | 12.7cm |
| Width | 5.3cm max. |
| Height | 9.9cm max. |
| Weight | 440g |
| Materials | Aircraft-grade aluminium, stainless steel, polyurethane |
| Colour | Aluminium & black |



Features

- Cable or manually operated
- Waterproof
- Replaceable polyurethane gripping surface components
- Snap on-off feature to avoid getting locked onto objects
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)
- Compatible with the Omega wrist (page 24)
- Also available with a heavy-duty spring option. Contact Customer Services to enquire referencing the part number NJAWS-XFS

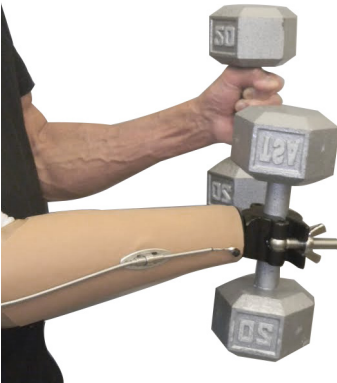
Applications

- Teenagers and adults capable of handling a high-performance terminal device
- Transradial, transhumeral and bilateral applications



Gym Terminal Device

Black Iron Master & Trainer



The Black Iron Master (BIM) is designed for high-performance, heavy duty and professional weight lifting and training. The device will mechanically grasp and lock onto handles and bars to provide unparalleled security and stability for extreme weight lifting. It is also useful for adapting to a wide variety of other exercise equipment available in modern fitness facilities.

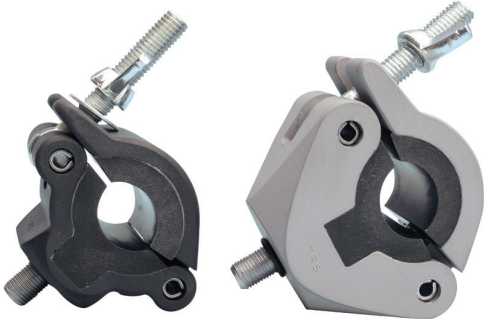
The Black Iron Trainer (BIT) is designed for lifting lower weights than the BIM. The BIT offers a lightweight, lighter duty alternative to the BIM yet still capable of handling a wide range of grip and apparatus handle diameters.

The BIM and BIT have no quick release or other break away features, once clamped in place they will stay secure until manually released.

| Part Number | Description |
|-------------|--------------------|
| NBIM | Black Iron Master |
| NBIT | Black Iron Trainer |

Technical Information

| Model | Master | Trainer |
|--------------|---|---|
| Application | Heavy-duty, high-performance activity | All-round weight training and lifting |
| Material | Forged aluminium, steel hardware, polymer rubber pads | Forged aluminium, steel hardware, thick polymer rubber pads |
| Length | 9cm | 6.6cm |
| Width | 5cm | 5.1cm |
| Weight | 709g | 440g |
| Bar Diameter | 2.2 - 3.8cm | 2.2 - 3.8cm |
| Load Rating | 567kg | 200kg |
| Colour | Dark grey-black, hard anodised finish | |



Features

- Swinging gate clamps the bar between curved rubber saddles
- Gate is manually secured in place with a large wing nut
- Black Iron Master and Trainer can be used with the following wrist units: Wedgrip Large Round or Oval, Disconnect Large Round or Oval, FM Disconnect Large Round, TRS Omega Large Oval
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)
- Schiek Weight Lifting Strap included with each device



Gym Terminal Device

Schiek Weight Lifting Strap

The Schiek Weight Lifting Strap is a device which aids control and reduces stress placed on the user's sound side during weight training. The strap features a built-in dowel which helps trap and secure the weight bar in the hand, significantly reducing the need to grip tightly.

| Part Number |
|-------------|
| NSCHIEK |



Gym Terminal Device

Black Iron Lite

The Black Iron Lite is designed for lightweight aerobic style dumbbell exercise and lightweight resistance training with weights below 4.5kg. Moulded from high strength polymers, the Black Iron Lite is equipped with a ratchet-type lock down strap for securely capturing weights and handles.



| Part Number |
|-------------|
| NBIL- ■ |

■ = Colour (Black = Leave blank, Teal = TL, Violet = V)

Features

- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Application

- Right or left side applications

Technical Information

| | |
|---------------|--|
| Length | 8.4cm |
| Width | 5.1cm |
| Weight | 332g |
| Load Rating | Not recommended for weights in excess of 4.5kg |
| Bar Diameters | 2.2-3.8cm |
| Material | High strength polyurethane and nylon |



Gymnastics & Recreational Devices

Shroom Tumblers

The Shroom Tumblers are a unique mushroom-shaped accessory for gymnastics floor exercise and tumbling. It is designed to progressively cushion impact and allows for easy rollover. The flexible, high-strength, synthetic polymer rubber provides multi-axial flexibility for cartwheels, flips and handstands.



| Part Number | Model |
|-----------------|---------------------|
| NSHROOM- ■ | Shroom Tumbler |
| NMINI-SHROOM- ■ | Mini Shroom Tumbler |

■ = Colour
Shroom Tumbler (Black = Leave blank, Blue = BLU, Pink = PNK, Purple = PUR, Teal = TL)
Mini Shroom Tumbler (Black = Leave blank, Light Blue = LB, Pink = PNK)

Features

- Proportioned to duplicate the surface area of the palm and fingers in children from 7 years old up to adults
- Supports weight of up to 90kg
- Can be used for floor-based exercises such as yoga or pilates
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Technical Information

| Model | Shroom Tumbler | Mini Shroom Tumbler |
|----------|------------------------------------|---------------------|
| Diameter | 8.9cm | 6.9cm |
| Height | 5cm | 4.1cm |
| Weight | 156g | 85g |
| Mounting | ½" x 20TPI diameter, threaded stud | |




Swinger



The Swinger is a versatile gymnastics-grade swing hook, capable of 360-degree performance mounts and dismounts. The device has an aluminium-reinforced core that provides exceptional strength and is encased in moulded, abrasion-resistant polyurethane rubber. Sized for the uneven parallel bars, the Swinger has a design optimised for approach, capture and release of the bar.

| Part Number |
|---|
| NSWINGER-  |

 = Colour (Black = **Leave blank**, **BLU** = Blue, **TL** = Teal, **V** = Violet)

Technical Information

| | |
|-----------|-------|
| Length | 9.6cm |
| Width | 8.4cm |
| Thickness | 3.5cm |
| Opening | 4.6cm |
| Weight | 227g |



Features

- Unique offset swing hook centre and pivot design
- Stance saddle provides above-bar forearm stability and support
- Optimised 'Grasp Aperture' enabling users to capture and release gym bars
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)
- Has multiple uses - see crossover table on p.32

Application

- Primarily designed for children and young adults up to 136kg

Ishi Archery & Fishing



The strong polyurethane yoke design of the Ishi device conforms to all types of bow handles and fishing rods.

For archery, the Ishi is particularly suitable as the bow nests in the non-marring cradle of the device. The adjustable ratchet strap and buckle system retains the bow without inducing torque.

For fishing, the Ishi's compliant ratchet-system design adjusts to fishing rod handles. Allows for right or left hand reeling, and the strong polyurethane material allows for ulnar deviation to mimic anatomical wrist movement.

| Part Number | Model |
|-------------|----------------------|
| NISHI | Ishi |
| NISHI-HD | Ishi Heavy Duty (HD) |

Technical Information

| Model | Ishi | Ishi HD |
|-----------|----------------------|---------------------|
| Max. load | Bows up to 18kg max. | Bows from 18-31kg+. |
| Length | 9cm | 9cm |
| Width | 7.9cm | 7.9cm |
| Thickness | 3.1cm | 3.1cm |
| Weight | 170g | 170g |



Features

- Has multiple uses - see crossover table on p.32
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)





Application

- Operates as a right or left hand
- Ishi for archery: suitable for children aged 5-10 years old
- Ishi for fishing: For all ages, and suitable for use with lighter fresh water fishing gear
- Ishi HD for archery: Suitable for youths and adults
- Ishi HD for fishing: For youths and adults, suitable for medium to heavier fresh water fishing gear and all salt water fishing

Free Flex

The Free Flex terminal devices are strong and designed with an anatomically-shaped dorsum and smooth scooped palmar surface. These will extend, flex and absorb shock under external force, and then using stored energy rebound back to its original shape. They can be used for a variety of recreational activities, particularly court sports such as basketball and netball.



| Part Number | Model |
|--|-------------|
| NFF4  | Free Flex 4 |
| NFF3  | Free Flex 3 |
| NFF2  | Free Flex 2 |
| NFF1  | Free Flex 1 |

 = Side (**L** = Left, **R** = Right)

 = Colour (**T** = Tan, **MB** = Medium Black, **DK** = Dark Complexion)

Features

- Constructed using flexible and durable polyurethane elastomers
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)
- Three colour options available

Application

- Children aged 2 years up to adults
- Transradial and some mid-to-long transhumeral limb applications


Technical Information


| Model | Free Flex 4 | Free Flex 3 | Free Flex 2 | Free Flex 1 |
|---------------------|-------------|-------------|------------------|-------------|
| Application | 2-6 years | 6-13 years | 13 years - Adult | Adult |
| Length | 8cm | 10.7cm | 12cm | 14cm |
| Width | 5.3cm | 6.6cm | 7cm | 8.4cm |
| Weight | 80g | 139g | 195g | 266g |
| Wrist Diameter | 3.8cm | 3.8cm | 4.3cm | 4.3cm |
| Wrist Circumference | 12cm | 12cm | 13.5cm | 13.5cm |

Super Sports

A passive terminal device, anatomically designed to resemble a 'cupped' hand. Super Sports are designed to enable two-handed performance in all types of athletic activities, particularly contact sports such as basketball, football, netball or martial arts. They are also a suitable option for parents who are handling infants or playing with children.



| Part Number | Model |
|--|----------------|
| NSS4  0 | Super Sports 4 |
| NSS3  0 | Super Sports 3 |
| NSS2  0 | Super Sports 2 |
| NSS1  0 | Super Sports 1 |

 = Colour (**T** = Tan, **MB** = Medium Black, **DK** = Dark Complexion)

| Model | Super Sports 4 | Super Sports 3 | Super Sports 2 | Super Sports 1 |
|----------------|----------------|----------------|------------------|----------------|
| Application | 2-6 years | 6-13 years | 13 years - Adult | Adult |
| Length | 8.5cm | 10.8cm | 12cm | 14cm |
| Width | 4.8cm | 5.6cm | 6.5cm | 7.7cm |
| Weight | 89g | 139g | 190g | 332g |
| Wrist Diameter | 3cm | 3.8cm | 4.3cm | 4.6cm |

Features

- Constructed using durable polyurethane elastomers, and with a stainless steel and aluminum support core
- Polymer flexes and extends when subject to external pressures, and absorbs shock
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Application

- Children aged 2 years up to adults
- Transradial and long transhumeral limbs

HP Hoopster



The HP Hoopster is a terminal device designed for court sports primarily, as its stiff yet flexible dual surface ‘hoop’ is optimised for catching a basketball. Its dorsal and palmar surfaces allow for ball control, dribbling on court surfaces, and flipping the ball for shots; whilst the volar ‘heel’ enables users to catch and stabilise the ball quickly and with greater accuracy.

| Part Number |
|--------------|
| NHP-HOOPSTER |

Technical Information

| | |
|-----------|---------------------------------------|
| Length | 22.2cm |
| Diameter | 19.4cm |
| Thickness | Hoop: 1.9cm, Wrist: 4.4cm |
| Weight | 170g |
| Material | High performance polyurethane polymer |

Features

- High performance polymer construction, with standard, stainless mounting hardware
- Pre-positionable, lockable, wrist angle mechanism optimises the terminal device’s wrist “extension” angle, to suit the user’s specific needs and functional capability
- ½” x 20TPI (M12 available, order conversion part number: NCUSTM)

Application

- Teenagers and adults
- Transradial and transhumeral applications

Rebound Pro Basketball Hand



The Rebound Pro Basketball Hand is a unique device made with compliant yet resilient polymer materials for playing basketball. Its flexibility enables excellent ball handling capability as it mimics the anatomical hand, wrist and finger movements required in court sports.

| Part Number |
|-------------|
| NREBOUND |

Technical Information

| | |
|---------------------|-------|
| Length | 19cm |
| Width | 17cm |
| Wrist Diameter | 4.1cm |
| Wrist Circumference | 13cm |
| Weight | 184g |
| Colour | Tan |

Features


- Friction discs moulded onto the palmer surface provide additional traction for ball control
- ½” x 20TPI (M12 available, order conversion part number: NCUSTM)
- Safe to use in contact court sports

Application

- 10 years old to adults

Barrage Volley Ball

| Part Number |
|---|
| NBARRAGE-  |

 = Colour (Black = Leave blank, TL = Teal)

A uniquely shaped terminal device designed to mimic the anatomical curve of the hand and extended fingers to aid with playing volleyball. The surface is durable yet flexible, and capable of performing actions such as setting, bumping, digging and blocking manoeuvres.

Technical Information

| | |
|-----------|--|
| Length | 12.9cm |
| Width | 13.4cm |
| Thickness | 1.3cm |
| Weight | 241g |
| Material | Proprietary, high performance, flexible polyurethane |



Features

- ½” x 20TPI (M12 available, order conversion part number: NCUSTM)

Eagle & Eagle Flex



Eagle

Both the Eagle and Eagle Flex are devices made of flexible polymer, designed to slot onto a golf club shaft and then be pulled up to the grip to secure it in place.

The Eagle is a solid, moulded one-piece device designed to capture and store external energy for recreational golfers.

The Eagle Flex is for more advanced golfers, who require a durable device, as it is reinforced with steel braiding and a flexible coupling.

| Part Number | Model |
|-------------|-----------------|
| NEAGLE | Eagle Golf |
| NEAGLE-FLEX | Eagle Golf Flex |

Technical Information

| Model | Eagle | Eagle Flex |
|---------------------|----------------------------------|------------|
| Overall Length | 15.9cm | 18cm |
| Grip Channel Length | 12cm | 11cm |
| Width | 3.8cm | 3.8cm |
| Height | 8.9cm | 6.4cm |
| Weight | 170g | 227g |
| Colour | Stealth Black | |
| Materials | Polyurethane and stainless steel | |



Eagle Flex

Features


- Flexible channel design adapts to a wide variety of club sizes and grip styles
- ½” x 20TPI (M12 available, order conversion part number: NCUSTM)
- Replaces the upper hand on a club grip
- The Eagle requires minimal assistance to engage it on the club grip

Application

- Right or left unilateral absence

Golf Pro System

The Golf Pro is a golfing device which fits over the club shaft and then can be slid onto the grip to secure it in place. It allows for a fluid backswing and downswing, enabling the user to have excellent control.

| Part Number |
|--|
| NGOLFPRO  |

 = Side (L = Left, R = Right)

Features

- Uniform club grips are recommended
- Internal plastic sizing rings can be enlarged for custom fit to the user’s clubs
- ½” x 20TPI (M12 available, order conversion part number: NCUSTM)

Technical Information

| Model | Golf Pro Left | Golf Pro Right |
|-------------|----------------------------------|----------------------------------|
| Application | Replaces lower hand on club grip | Replaces upper hand on club grip |
| Length | 17cm | 13cm |
| Width | 227g | 213g |



Right



Left

Hammerhead



The Hammerhead duplicates the bio-mechanical wrist action required for performance kayaking. The Hammerhead safely secures the paddle handle, releasing manually and quickly when required. Designed with a non-marring friction surface to provide high torque paddle control, it can be used in a variety of water sport applications with some simple handle modifications.

| Part Number |
|-------------|
| NKAYAK |

Technical Information

| | |
|--------|-------|
| Length | 11cm |
| Width | 7cm |
| Weight | 340g |
| Colour | Black |



Features

- Strong and reliable synthetic polymer construction
- Mounts on any standard prosthesis
- Energy storing wrap around with flexible strap coupling
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Downhill Racer Ski



A skiing device for snapping-on to ski poles, which features a pre-flexed angle for snow clearance and optimised control. It is constructed using flexible, high-performance polyurethane for durability, and comes in multiple flexibilities to meet the user's needs.

| Part Number |
|---|
| NSKI-RACER- ■ - ■ * |

■ = Side (LEFT or RIGHT)
■ = Colour (Black = leave blank, TL = Teal, BLU = Blue, V = Violet)

*Please specify age, weight and performance criteria when ordering as these devices are built to individual requirements.

Features

- Comes with a press-on rubber pole cap for protection
- Designed to fit -1.6cm diameter ski poles, and can also be used on hiking poles
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Applications

- Youth and adult
- Suitable for downhill and cross-country skiing

Technical Information

| | |
|-----------|-------|
| Length | 8.4cm |
| Width | 6.4cm |
| Thickness | 3.3cm |
| Weight | 114g |

Ski 2



The Ski 2 is a terminal device which can be used with or without a cable for quick and precise pole plants, and utilises a quick disconnect pole system. It has been designed to assist with balance and body posture when skiing to ensure users are safe.

| Part Number |
|-------------|
| NSKI2TD** |

Technical Information

| | |
|-----------|---|
| Length | 8.4cm |
| Width | 3.8cm |
| Weight | 298g |
| Materials | Aluminium, stainless steel, rubber, plastic |

Features

- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)
- Includes a shock absorbing flexion mount
- Accepts 0.5cm and 0.7cm diameter cable ball fittings
- Can be used with poles with a diameter from 1.5 - 1.9cm

Application

- Cross-country (nordic) and downhill (alpine) skiers, from novice to advanced
- For youth and adults

**Please specify whether user is a novice or advanced skier when ordering as two types of shock absorbing mounts are available.

Multi-Duty



The Multi-Duty is a terminal device with a quick-release ratchet and buckle system for gripping objects during vocational activities. The excellent rocker action allows for increased control through a wide range of angles. The high-strength, flexible design mimics natural wrist and forearm bio-mechanics making it particularly suitable for a variety of applications and activities.

| Part Number | Model |
|-----------------|-----------------------------|
| NMULTI-D | Multi-D 1/2" x 20TPI Thread |
| NMULTI-DM12X1.5 | Multi-D M12 Thread |

Features

- Suitable for a wide range of activities including kayaking, rowing, long handle tool control, gardening and DIY
- Has multiple uses - see crossover table on p.32



Technical Information

| | |
|----------------------|---------------|
| Length | 9.7cm |
| Width | 5.1cm |
| Weight | 272g |
| Adjustable Diameters | 2.86 - 4.5cm+ |
| Colour | Black |

Helix



The Helix offers incredible flexible strength and external energy capture-and-return action. The Helix's coil design can be used on a variety of vocational objects, and mimics the motion of an anatomical hand and forearm. The weave-in and snap-out connection system enables it to be used for a wide range of practical applications, including: gardening, hockey and cricket.

| Part Number |
|--|
| NHELIX- ■ |

■ = Side (L = Left, R = Right)

Features

- Flexible strength, and an external, energy capture and return action
- Has multiple uses - see crossover table on p.32
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)



Technical Information

| | |
|---------------------|---------------|
| Length | 11cm |
| Width (Flexible OD) | 5.6cm |
| Shaft (Flexible ID) | 3cm |
| Base Unit Diameter | 3.6cm |
| Weight | 142g |
| Colour | Stealth Black |

Cobra Baseball, Cricket & Softball Throwing

The Cobra terminal device are optimised for control, trajectory and speed when throwing, and have been manufactured with polymer technology for energy capture and release. They are fully adjustable for ball release and throwing angles.

| Part Number | Model |
|-------------|------------------|
| NCOBRA | Cobra (Baseball) |
| NCOBRASb11 | Cobra Sb11 |
| NCOBRASb12 | Cobra Sb12 |

Features

- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)



Technical Information

| Model | Cobra | Cobra Sb11 | Cobra Sb12 |
|--------|-------|------------|------------|
| Length | 18cm | 19cm | 20.3cm |
| Width | 9cm | 10.2cm | 11cm |
| Weight | 227g | 270g | 298g |

Pinch Hitter Bat Adapters



Technical Information

| Model | Pinch Hitter | Pinch Hitter HD | Pinch Hitter Flex |
|-----------|-------------------------------------|-----------------|-------------------|
| Length | 11cm | 13cm | 16.5cm |
| Width | 3.8cm | 3.8cm | 3.8cm |
| Weight | 114g | 142g | 227g |
| Materials | Proprietary flexible polymer rubber | | |

The Pinch Hitter is a terminal device for holding a bat, and comes in three models. They are constructed with high-performance, flexible synthetic rubber, which can be snapped on and off aluminium bat handles safely.

They transfer body power and energy, which the device stores and then releases to help improve swing speed and hitting power.

| Part Number | Model |
|------------------|-------------------|
| NPINCHITTER | Pinch Hitter |
| NPINCHITTER-HD | Pinch Hitter HD |
| NPINCHITTER-FLEX | Pinch Hitter Flex |

Features

- Can be screwed into standard prosthetic wrists or disconnect-style wrist adapters
- Needs to be 'over-gripped' with the second hand when swinging a bat
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Application

- Can be used either right or left handed, but performs best on leading arm
- Pinch Hitter - For children or users with small hand proportions, who wish to swing a bat utilising the power and function of both hands.
- Pinch Hitter Heavy Duty - For young adults, older children or adults who require a device with more performance
- Pinch Hitter Flex - For adults who play a lot of baseball/softball, and require a flexible, replaceable coupling and may need a longer adapter

Mountain Master Mountain Bike



The Mountain Master Mountain Bike terminal device provides the user with excellent stability and secure control on their handlebars. It features a stainless steel ball-pedestal mount with machined aluminium mounting hub, and a flexible, strong polyurethane body with a shock-absorbing design. The quick connect and release system means the terminal device is not locked to handlebars providing improved control for the rider.

| Part Number |
|-------------------------|
| NMTNMASTER- <div></div> |

= Colour (Black = **leave blank**, G = Green)

Technical Information

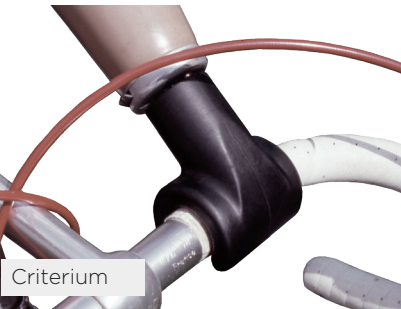
| | |
|--------|--------|
| Length | 10.7cm |
| Width | 6.1cm |
| Height | 8.4cm |
| Weight | 270g |



Features

- Passive contoured features provide bike frame carrying capability
- Fits all standard 7/8" (2.2cm) diameter bars
- Snap-on and lift-off function
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Criterion Bicycle Handlebar Adapters



| Part Number | Model |
|-----------------|------------------------------|
| NCRITERIUM-70 | Criterion |
| NPIVOT-85 | Criterion Pivot 85 (Firm) |
| NPIVOT-SHORT-70 | Criterion Pivot Short (Soft) |
| NPIVOT-SHORT-85 | Criterion Pivot Short (Firm) |

Technical Information

| Model | Criterion | Criterion Pivot | Criterion Pivot Short |
|--------|-----------|-----------------|-----------------------|
| Length | 8.6cm | 10.2cm | 7.4cm |
| Width | 6.4cm | 6.4cm | 6.1cm |
| Weight | 184g | 213g | 170g |
| Colour | Black | Black/Satin | Black/Satin |

Both adult models, the Criterion and Criterion Pivot, provide an offset centreline duplicating the normal palm grasping position for improved bio-mechanics when cycling.

The Criterion is the original version, which has softer, more flexible properties providing easier application.

The Pivot version is made up of two pieces, allowing for much greater angulation and arm torque. The adjustable friction pivot mechanism results in higher performance, yet is more difficult to release from the bars.

The Criterion Pivot Short is for children and has a wedge design. It features integral radial, and an ulnar pivoting action that provides greater versatility, control and safety for the rider.



Criterion & Criterion Pivot



Criterion Pivot Short

Features

- Handlebars can be taped with material to change friction and force required to engage/disengage the Kriteriums
- All models snap/pull on and off 1" (2.54cm) diameter bicycle handlebars and fit right or left
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)
- Has multiple uses - see crossover table on p.32

Application

- 70 durometer is recommended for children and less aggressive riders. Load required to directly release is approx. half that of the 85 durometer
- 85 durometer is recommended for more aggressive riders
- The Criterion Pivot Short model is for children aged three years and older, and it is recommended that older children use the Firm version

Ener-Joint

Compact and self-contained, the Ener-Joint is designed to be mounted to mimic the centre of the anatomical elbow. The rapid and reliable bicycle hub-style locking lever provides a quick release mechanism, providing enhanced control for the user. Elastomeric energy storing and release allows this elbow to provide progressive resistance throughout flexion/extension, whilst the energy absorbing isolation module provides constant shock absorption.

Designed for adult-grade rugged activities, the Ener-Joint is particularly suitable for the following activities: mountain biking, ATV riding, off-road motorcycle riding, rowing, and kayaking.

| Part Number |
|--------------|
| NENER-JOINT* |

Technical Information

| | |
|-----------------------|-----------------------------------|
| Cylinder Diameter | 7.6cm |
| Cylinder Width | 3.8cm |
| Module Overall Length | 9.7cm |
| Module Overall Width | 9.9cm |
| Weight | 540g |
| Colour | Stainless steel & black aluminium |

*Please contact customer services or visit www.steepergroup.com to download and complete a separate Ener-Joint Order Form



Features

- ½" x 20TPI for proximal and distal connection (M12 available, order conversion part number: NCUSTM)
- Endoskeletal design
- Custom attachment couplings are available
- Polyurethane core isolates external shock forces under both flexion and extension
- Variety of pre-positionable, lockable angular orientations


Application

- For adults undertaking rugged activities and loads, but can be used by active young adults

Kahuna

The Kahuna is a terminal device for swimming and ocean surfing. It is manufactured using extremely durable polymer, and is shaped to resemble a concave palm to allow for effective paddling and rail control. The device's surface has a texture which enhances grip on surfboards, and a unique 'heel' design at the base to enable push off on the board.

Features a ½" x 20 TPI stainless steel thread (M12 available, order conversion part number: NCUSTM)

| Part Number |
|--|
| NKAHUNA-  |

 = Colour (Black = *leave blank*, SB = Sea Blue/Green)



Technical Information

| | |
|--------|--------|
| Length | 15.9cm |
| Width | 12.1cm |
| Depth | 6.4cm |
| Weight | 230g |

Freestyle Swim Device



The Freestyle Swimming Device is a recreational accessory designed to be used with a custom swimming prosthesis for high performance or competitive swimming.

The design mimics a folding wing which reduces resistance during stroke recovery but flares open to provide maximum resistance during the power stroke. The device can be rotated to optimise various swimming strokes and styles and the wings can be fixed in a flared position for treading water and water aerobic exercise.

| Part Number |
|-------------|
| NFSTD2 |

Features

- Passive (no cable required)
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Application

- Comes in an adult size but can be easily modified down to conform to a smaller hand
- Best used with a custom-shortened swimming prosthesis and a silicone suspension sleeve

Technical Information

| | |
|-----------|---|
| Length | 15cm |
| Width | 14cm |
| Thickness | 1.6cm |
| Weight | 96g |
| Colour | White |
| Materials | Polypropylene, aluminium & stainless steel hardware |

Guitar Pick Adapter

A lightweight, highly adjustable Guitar Pick Adapter, constructed to be mounted close to the distal end of the prosthesis and to readily accept any pick. The pick is securely held in place with set screws, and the device has a lockable ball and socket component allowing for the pick to be adjusted to any suitable playing position.

| Part Number |
|-------------|
| NGUITARPA |

Technical Information

| | |
|--------|-------------------|
| Weight | 85g |
| Colour | Black & aluminium |



Features

- Passive (no cable required)
- To order a guitar pick for direct attachment to a locking liner, use: NGUITARPA-CUSTOM, and specify thread required
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Violin Bow Adapter 2

The Violin Bow Adapter 2 is a sophisticated terminal device that pivots, mimicking natural wrist action and control. It uses a lockable ball and socket component modified to readily screw into any standard prosthesis. The adapter can be adjusted to any angle to help ensure optimal playing position and technique, and the bow is held firmly in place with set screws.

| Part Number |
|-------------|
| NVIOLIN2 |

Technical Information

| | |
|--------|-------|
| Weight | 128g |
| Colour | Black |



Features

- Lightweight design for ease of use when playing
- Passive (no cable required)
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Swim Fin Kit

Provides the same movement as the Freestyle Swim Device, but without the need for a prosthesis. The kit comes with fabrication layouts and instructions for attaching the device to the residual limb.

Application

- Transradial
- Youth to adult

| Part Number |
|-------------|
| NSFK100 |



Technical Information

| | |
|--------------|---|
| Length/Width | Varies dependent on patient fabrication |
| Thickness | 1.8cm |
| Colour | White |
| Materials | Polyethylene, foam sheet, latex tubing, stainless steel |

Drum Stick Adapter

The Drumstick Adapter has a unique design which allows the stick to not only pivot, but does so under an adjustable tension load. This feature enables the drummer to create spontaneous "drum rolls" and other drumming techniques. The drumstick is securely held into place using a set screw.

| Part Number |
|-------------|
| NDRUMSA |

Technical Information

| | |
|--------|---------------------------------|
| Weight | Approx. 142g |
| Colour | White plastic & black aluminium |



Features

- Passive (no cable required)
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)
- Drumstick and adapter require simple modification meaning the product is non-returnable

Dragon

The Dragon terminal device is specifically designed for contact sports and floor exercise activities including: martial arts, wrestling and sparring. Duplicating a fist-like anatomy, the Dragon's uniquely shaped surface provides a high traction along with exceptional punching power and cushioned protection for the arm.

| Part Number |
|-------------|
| NDRAGON60 |

Features

- Shock absorbing cylindrical cavity with flexible polymer construction
- Multi-functional design in black
- Has multiple uses - see crossover table on p.32
- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)



Technical Information

| | |
|-----------|---|
| Length | 9.4cm |
| Width | 7.4cm |
| Height | 11cm |
| Weight | 298g |
| Colour | Stealth Black |
| Materials | Polyurethane & stainless steel threaded mounting stud |

Hustler

The Hustler is a lightweight and versatile terminal device used for playing pool, billiards, snooker and similar table games. Its design allows for easy adjustment and a friction-free swivel ring to achieve different shot angles, and the rigid, rubber-tipped mono-pod creates a non-slip bridge.



| Part Number |
|-------------|
| NHUSTLR |

Features

- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Applications

- Youth to adult

Technical Information

| | |
|-----------|-----------------------------------|
| Length | 13cm |
| Weight | 128g |
| Colour | Aluminium, black & white |
| Materials | Nylon, neoprene, aluminium, steel |

Amp-U-Pod

The Amp-U-Pod is a lockable tripod mount for cameras with a standard ¼" -20 hot shoe hole. It is designed to support the camera whilst facilitating a variety of camera angles. Can also be used with film cameras, negating the need to have to remove the camera from the prosthesis when changing film.

| Part Number |
|-------------|
| NDPAUPO |

Technical Information

| | |
|--------|-----------------------------|
| Length | 15cm |
| Weight | 71g |
| Colour | Non-glare black & aluminium |



Features

- ½" x 20TPI (M12 available, order conversion part number: NCUSTM)

Eldorado Z-Axis Climbing Foot



A revolutionary climbing device, the Eldorado Z-Axis Climbing Foot provides superior control, loading, leverage and proprioception. The foot comes complete with a custom Evolv® TRAX-XT5 rubber climbing shoe.

It features a high-strength keel for stability and control, and a compliant polymer foot matrix to provide 'feel' when under load.

| Part Number | Description |
|-------------|--|
| NELDO-Z | Eldorado Z-Axis Climbing Foot Unilateral |
| NELDOZ01 | Eldorado Shoe Only |

Technical Information

| | |
|------------------------------|---|
| Length | 18.4cm |
| Width | 7.1cm |
| Height (w/o pyramid adapter) | 9.5cm |
| Height (w/pyramid adapter) | 11.4cm |
| Weight | 709g |
| Foot Colour | TRS Tan |
| Shoe Style | Evolv® TRAX-XT5 (Laced). High-traction toe, sole & heel |



Features

- Titanium pyramid adapter and hardware included, to enable simple attachment to a lower extremity endoskeletal prosthesis designed to receive a standard pyramid adapter
- Foot constructed using high-strength polymers and with a lightweight core
- Shoe constructed using tough, high-strength abrasion resistant materials, typical of high-performance rock climbing footwear

Application

- Left or right application
- Unilateral and bilateral transtibial, and certain transfemoral climbers
- Suggested maximum weight of climber 136kg

Raptor Sky Hook



Designed for rock and gym climbing, the Raptor Sky Hook is a slim yet strong terminal device with an optimised shape. The friction-adjustable 'rocking' action hook design adapts to various approach angles as the user climbs.

| Part Number | Description |
|-------------|---|
| NRAPTOR | Raptor Sky Hook |
| NRAP004* | Individual Tip - Aluminium & polyurethane |
| NRAP005 | Individual Tip - Brass |
| NRAP009 | Replacement 'O' Ring |

*Please specify whether 85 or 95 durometer is required

Features

- Solid titanium plate body for support, and stainless steel wrist adapter system
- Three replaceable 'tips' included - 2 x polyurethane (85 & 95) and one 'shape-able' brass
- Cloaked with an easily replaceable, high-traction 'O' ring sheathing
- Has multiple uses - see crossover table on p.32

Application

- Left or right application

Technical Information

| | |
|----------------------------|--------|
| Length | 8.6cm |
| Width | 9.4cm |
| Thickness | 1.6cm |
| Height (w/pyramid adapter) | 11.4cm |
| Weight | 170g |

W

Wrist Technology

Nylon Child's Wrist

The lightweight Nylon Wrist is available in two sizes and features an adjustable collar which provides constant friction.

| Part Number | Description |
|----------------|----------------|
| NINFANTWRIST | Infant's Wrist |
| NTRSCHILDWRIST | Child's Wrist |

Technical Information

| Model | Infant's Wrist | Child's Wrist |
|----------|----------------|---------------|
| Style | Round | Round |
| Diameter | 3.2cm | 3.8cm |



Features

- ½" x 20TPI thread
- Friction can easily be adjusted to users requirements with the supplied Allen key

W

Wrist Technology

Omega Friction /Disconnect Wrist



Omega Split Hook Adapter

The Omega Friction/Disconnect Wrist series provides adjustable, rotational friction control with twelve locking positions. It uses reliable Omega disconnect and insert capture technology, to ensure a precise and solid fit. Disconnect features include lock-in, lock-out and lock-open features.

This device is manufactured using surgical stainless steel and aluminium, and features a standard laminating ring for fabrication.

| Part Number | Model |
|-------------|--|
| NOMEGA-R | Omega Round Large |
| NOMEGA-L | Omega Oval Large |
| NOMEGA-M | Omega Oval Medium |
| NOM003 | Omega Wrist Insert with ½" x 20TPI internal thread |
| NOM005 | Omega Hook Adapter |
| NPTA005 | Omega 'O' Ring |

■ = Colour (Aluminium = Leave blank, B = Black)



Features

- Hook adapter for use on hooks and other narrow-based terminal devices to provide the broader platform necessary for the insert frictional adjustment function

Technical Information

| Model | Omega Round Large | Omega Oval Large | Omega Oval Medium |
|-----------------------------------|-------------------|------------------|-------------------|
| Major Diameter | 5.18cm | 6cm | 5cm |
| Minor Diameter | N/A | 4.5cm | 3.8cm |
| Total Height with Laminating Ring | 2.62cm | 2.5cm | 2.5cm |
| Height (Face Plate Only) | 0.8cm | 0.8cm | 0.8cm |
| Weight | 103.1g | 111.2g | 89.4g |

AC

Waterproof Arm Cosmeses

Arm Skinz

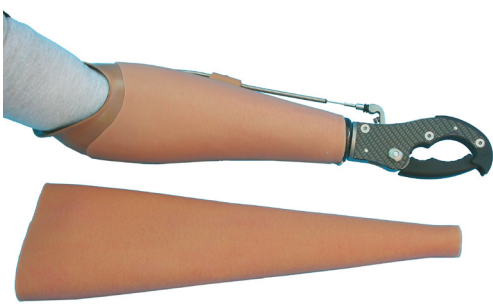
Arm Skinz are a waterproof arm cosmeses, designed to provide an improved cosmetic covering for body-powered and passive systems. Manufactured using a stain-resistant, tan coloured silicone material, they have optimal elasticity, can be easily cleaned, and are similar to donning a regular cosmetic glove.

Please note: these are not designed for manual labour or activities which may cause abrasion.

| Part Number | Description |
|--------------|----------------------|
| NARMSKINZ-AD | Arm Skinz Adult |
| NARMSKINZ-PD | Arm Skinz Paediatric |

Technical Information

| Model | Paediatric | Adult |
|---------------|----------------|---------------|
| Circumference | 10.2 - 22cm | 10.2 - 35.6cm |
| Length | 43cm | |
| Thickness | Approx. 0.15cm | |



AC

Pro Cuff

Pro Cuff Prosthesis



Complete and ready to use, the Pro Cuff allows almost all TRS terminal devices to be positioned in an anatomically correct location within minutes, adding little to no additional length to the arm. It utilises a built-in BOA® cable lacing system for tension and closure, to allow for easy adjustability and quick donning/doffing.

Ideal for activities such as golfing, kayaking, swimming and ball/bat sports.

| Part Number |
|-------------|
| NPRO-CUFF-■ |

■ = Side (L = Left, R = Right)

Technical Information

| | |
|--|-----------------|
| Length | 12.7cm |
| Weight (with stainless bracket) | 187g |
| Weight (without bracket) | 102g |
| Distal End Internal Circumference (adjustable) | ~14.6 - ~20.3cm |
| Proximal End Internal Circumference (adjustable) | ~20.3 - ~25.4cm |



Features

- Stainless steel terminal device disconnect bracket with multiple mounting options
- Thermomouldable cuff
- ½" x 20TPI internal thread on adapter insert
- Order extra Adapter Inserts for quick and easy interchange of terminal devices (see page 25 for details)

Applications

- Easily modified and adjustable, the universal size will fit most users
- Suitable for those with a temporary or permanent hand injury, paralysis, partial hand absence or wrist disarticulation
- Used to restore gripping dexterity when using the Pro Cuff with an appropriate terminal device

Paediatric Pro Cuff Prosthesis



The Paediatric Pro Cuff Prosthesis is a ready-to-use cuff for children, which uses the BOA® cable closure system for adjustability to accommodate a wide range of forearm circumferences. It can be used with most TRS terminal devices with minimal bracket or device modification.

| Part Number |
|---|
| NPRO-CUFF-PEDI- |

 = Side (**L** = Left, **R** = Right)

Technical Information

| | |
|--|-----------------|
| Length | 10.4cm |
| Weight (with aluminium bracket) | 99g |
| Weight (without bracket) | 57g |
| Distal End Internal Circumference (adjustable) | ~13.3 - ~18.4cm |
| Proximal End Internal Circumference (adjustable) | ~16.8 - ~21.6cm |



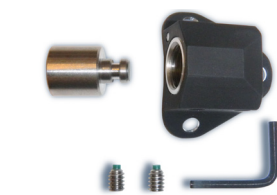
Features

- Constructed using reformable low temperature plastic foam laminates
- Features an aircraft aluminium ‘disconnect’ bracket with stainless steel disconnect adapter
- ½” x 20TPI internal thread on adapter insert

Applications

- Infants and children up to smaller-framed adults
- Ideal for activity specific activities with the appropriate terminal device

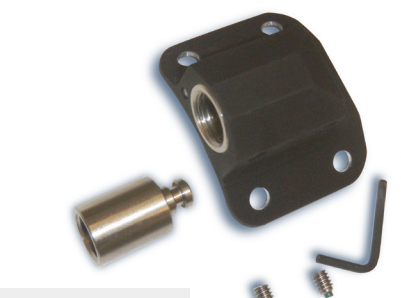
Prosthesis Adapter



Small Adapter

A high-strength aluminium prosthesis adapter, with a stainless steel insert included. This is a rapid disconnect system which uses dual set screws to retain insert and adjust frictional rotation with the Pro Cuff Systems (p.23-24). Comes with a magnetically-stored Allen key for convenience.

| Part Number | Model |
|-------------|---|
| NPDTA1000 | Prosthesis Adapter Large |
| NPDTA2000 | Prosthesis Adapter Small |
| NPDTA101 | Large Adapter Insert (½” x 20TPI internal thread) |
| NPDTA201 | Small Adapter Insert (½” x 20TPI internal thread) |



Large Adapter

Technical Information

| Model | Prosthesis Adapter Large | Prosthesis Adapter Small |
|--------------|--------------------------|--------------------------|
| Length | 3.8cm | 3.6cm |
| Width | 4.8cm | 4cm |
| Arm Diameter | ~7.6cm | ~5cm |

Pro Cuff DM



The Pro Cuff Distal Mount is a distal ‘in-line’ terminal device mounting system for improved device control and balance. It is a ready to finish and fit system, which has an excess of two inches of length positioning adjustment to suit individual requirements.

The design is based around limb capture and retention, and easy donning and doffing. This is provided by the AFO ‘lift-off’ tongue, dual hook-and-loop closure systems, and the built-in BOA® cable closure and tension technology.

| Part Number |
|--------------|
| NPRO-CUFF-DM |

Features

- Includes adjustable position-length Prosthesis Distal Disconnect Wrist System (see below)
- Constructed using re-formable, low temperature plastic foam laminates
- Four Chicago-style threaded rivets included for securing bracket onto prosthesis in desired position

Applications

- Wrist disarticulation and specific partial hand absences

Technical Information

| | |
|------------------------------|--------|
| Length | 12.7cm |
| Bracket Length Adjustability | ~5cm |
| Overall Weight | 213g |

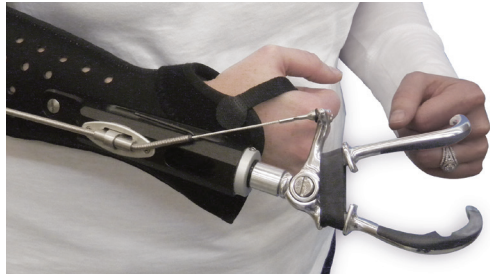
Simulator Kits



The lightweight prosthetic Simulator Kits enable users to trial terminal devices, giving them a realistic understanding and expectation of their chosen terminal device. The BOA® cable closure technology adjusts to a wide variety of users and helps position the terminal device in its optimal alignment.

| Part Number |
|---|
| NSIM- |

 = Side (**L** = Left, **R** = Right)



Features

- Sure-Lok cable locking and control technology
- Easily adjustable control harness and cable system
- Voluntary opening split hook and TRS Grip 3 Prehensor included (see page 6)
- Constructed of low temperature, thermoformable EXOS® laminates
- ½” x 20TPI (M12 available, order conversion part number: NCUSTM)

Prosthesis Distal Disconnect Wrist System



The Distal Disconnect Wrist System is a high-strength frame which allows for more proximal terminal device mounting. It is an integral, compact disconnect wrist system which creates an ‘in-line’ mounting design for more natural control of activity specific accessories.

Constructed using stainless steel and anodised aluminium, it is ready to drill and mount into a prosthesis. Order extra Adapter Inserts for quick and easy interchange of terminal devices (see p.25 for details).

| Part Number |
|-------------|
| NPDD1000 |

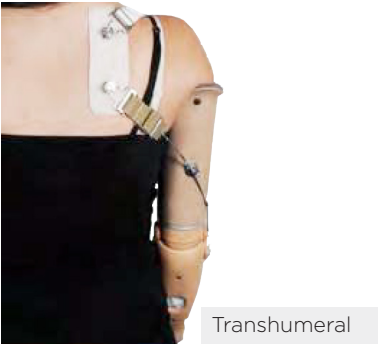
Technical Information

| | |
|------------------------|--|
| Length | 14.1cm |
| Width (Tapered design) | Distal End = ~6.4cm, Proximal End = ~7.6cm |
| Circumference | Distal End = ~20cm, Proximal End = ~24cm |
| Wrist Diameter | 2.9cm |

S&C

Suspension & Control Systems

Cutaneous Anchor Technology



Transhumeral

This innovative anchor system uses specialist tape and reusable mounting plate anchors to control a body-powered cable and a terminal device. This eliminates the need for a contra-lateral harness which can interfere with user clothing and affect comfort.

Can also be used to anchor linear transducers, or powered and body-powered devices simultaneously.

| Part Number | Model |
|-------------|--------------|
| NT-HANCHOR | Transhumeral |
| NT-RANCHOR | Transradial |



Transradial

Features

- Available as a transradial or transhumeral kit
- Can be used for multiple days at a time
- Ipsi-lateral cable and terminal device control
- Adhesive used is high-traction and designed to not irritant the skin
- Kit comes with instructions for setting up the system

S&C

Suspension & Control Systems

Anchor Companion Strap

Features

- 1" wide Dacron webbing, approximately 20" long
- Comes with a TRS Rapid Adjust Buckle (black - see opposite page)
- Interfaces with the Cutaneous Anchor using the Fillauer nylon suspension clip
- Available with white or black webbing (only comes with a black buckle)



| Part Number | Model |
|-------------|-------------|
| NTC-STRAPB | Black Strap |
| NTC-STRAPW | White Strap |

S&C

Suspension & Control Systems

Pro-Polyweb Harness Material

The Pro-Poly Web Harness material is a soft and smooth in texture, ensuring it is comfortable for the user to wear. As it is slightly thicker than conventional Dacron web, it functions well with TRS Rapid Adjust Buckles (see opposite page).

| Part Number | Pro-Polyweb Description |
|-------------|---------------------------|
| NAWEB1BR | 1" Tape, Blue, 50ft roll |
| NAWEB1KR | 1" Tape, Black, 50ft roll |
| NAWEB1RR | 1" Tape, Red, 50ft roll |
| NAWEB1TR | 1" Tape, Tan, 50ft roll |
| NAWEB1WR | 1" Tape, White, 50ft roll |
| NAWEB3KR | ¾" Tape, Black, 50ft roll |
| NAWEB3WR | ¾" Tape, White, 50ft roll |



Features

- Easily incorporated into standard harness fabrication
- Can be laundered regularly without damage

S&C

Suspension & Control Systems

Rapid Adjust Buckles

The low-profile, strong Rapid Adjust Buckles are used to replace any three or four bar buckles and most 'belt'/'latch' buckles used on orthotic braces.

Optimised for use on upper extremity prosthetic harnesses to enable quick adjustment of cable excursion.

| Part Number | Size |
|-------------|------|
| NARAB1K | 1" |
| NARAB34K | ¾" |



Features

- Buckles use a 'clamp' action for positive locking anywhere on the web
- One-handed operation

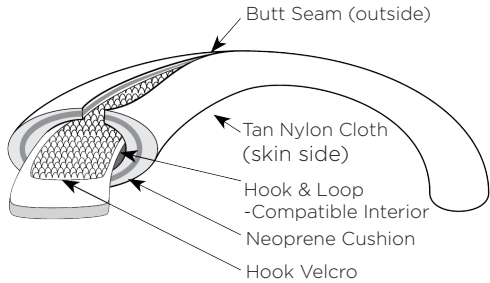
S&C

Suspension & Control Systems

Neo-Axilla Loop Padding

The Neo-Axilla Loop Padding has a hook-and-loop compatible inner, to wrap around web in the axilla area of a harnessing system. Constructed using soft nylon on the exterior to prevent chafing and discolouring.

| Part Number |
|-------------|
| NAXL150 |



Features

- Lightweight design
- Washable
- Soft tan colour
- To wrap around 1" wide harness webbing

Technical Information

| | |
|--------|-----------|
| Width | ⅛-⅝" wide |
| Length | 12ft roll |


S&C


Suspension & Control Systems

BAHA

The BAHA is a bio-mechanically aligned harness anchor, designed to optimise a harness's axilla angle by providing a more efficient cable-control pathway.

Intended to replace figure-8 harness rings, these are lightweight, durable and flexible devices to conform to the patient's spine.

| Part Number | Model |
|--|------------|
| NBAHA-  | Adult |
| NBAHA-PEDI | Paediatric |

 = Colour (Tan = Leave blank, Black = BLACK)



Features

- Can be modified to accommodate most axilla harness angles
- Requires a standard fabrication technique

Technical Information

| Model | Adult | Paediatric |
|-----------|-------|------------|
| Length | 9.9cm | 7.4cm |
| Width | 6.9cm | 5cm |
| Thickness | 0.3cm | 0.3cm |
| Weight | 14g | 9.5g |

Applications

- Left or right application
- Can be applied to any figure-8 harness configuration

ELF Straps

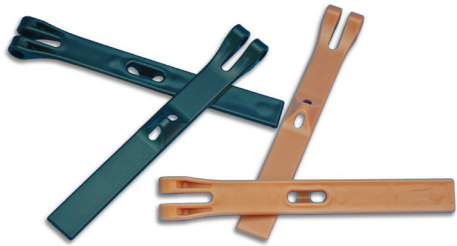


The ELF Cross Bar and Cable Control Strap eliminates the need to fabricate cross bar straps. They are designed to enhance cable excursion control around the elbow by providing a platform and cable housing ‘tunnel’. Also enables elbow flexion during glenohumeral flexion and bi-lateral scapular abduction movements, to help generate the cable forces needed to operate terminal devices such as Grip Prehensors and Split Hooks.

| Part Number | Description |
|------------------|------------------------------|
| NELF-STRAP-BLACK | Black ELF Strap |
| NELF-STRAP-TAN | Tan ELF Strap |
| NHD50367 | Heavy Duty Cross Bar |
| NHD50373 | Heavy Duty Cross Bar Housing |

Technical Information

| | |
|------------|--------|
| Length | 16.5cm |
| Width | 1.9cm |
| Max. Width | 2.4cm |
| Thickness | 0.32cm |
| Weight | 14g |



Features



- Waterproof polyurethane materials provides strength and flexibility
- Provided at an extra-long length to fit prosthesis with lower trim lines
- Can be used with heavy duty and standard size cable housing
- Special tubing provided to increase outer diameter of standard-size cross bars so they can be used with the ELF system
- Easily modified for optimal length and mounting options



Sure-Lok Cable Lock Control Systems



Vertical Mount

Eliminating the need to maintain continuous cable tension for control and grasping, the Sure-Lok replaces the standard cable, the cable housing system and the related hardware. Recommended for us with voluntary-opening and voluntary-closing terminal devices to improve function and versatility. It features a reliable manual lever actuation controlling on/off operation, and a high-performance TRS Python standard cable.

| Part Number | Model |
|--|----------------|
| NVADA-  | Surface Mount |
| NVSL2000  | Vertical mount |

 = Side (L = Left, R = Right)
 = Colour (Black = B, Silver = S)

Technical Information

| Model | Surface Mount | Vertical Mount |
|--------------------|---------------------------|-----------------------------|
| Length | 3.6cm | 3.048cm |
| Width | 2.4cm | 1.12cm |
| Height | 0.9 - 1.3cm | 1.27cm |
| Colour | Tan and Black covers inc. | Black or Silver cover plate |
| Cover Plate Length | N/A | 5.8cm |
| Cover Plate Width | N/A | 2cm |
| Mounting Depth | N/A | 1.17cm |



Surface Mount

Surface Mount Features

- High strength polymer covers and switch levers
- Supplied with 18” of heavy duty cable housing, liner and TRS Python standard cable (p.31)
- Four TRS cable housing ferrules (p.31)
- Stainless steel base system designed to fit various arm sizes
- For application on long residual limbs

Vertical Mount Features

- Supplied with 18” of heavy duty cable housing, liner and TRS python standard cable (p.31)
- Comes with cover plate designed to fit various arm radii
- Four TRS cable housing ferrules (p.31)
- Vertical mount to be mounted up to ½” below prosthesis surface - suitable for short and mid-length limb absence

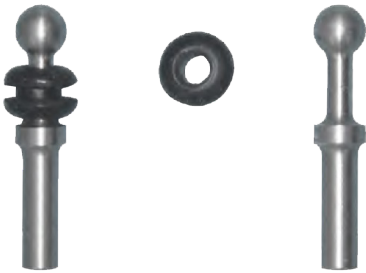
Adept Cable Adapters

Designed exclusively for use with the Adept Prehensors (p.5) and Lite Touch Hands (p.4), these are one-piece stainless steel components for in-line cable fittings.

| Part Number |
|-------------|
| NPTA010T |

Technical Information

| | |
|--------------------|---------------|
| Ball Diameter | 3/16” |
| Accepts Cable Size | 1/8” diameter |



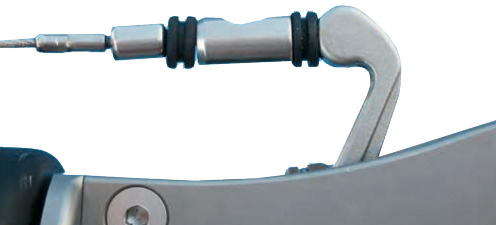
In-Line Hook to Grip Adapter

A stainless steel adapter which connects 9/32” diameter ball triple swivels to Grip Prehensors (p.6-7) easily and reliably. Supplied with a grommet.

| Part Number |
|-------------|
| NH-GADAP |

Technical Information

| | |
|----------|-----------------|
| Length | 2.5cm |
| Material | Stainless Steel |



Spectra® Cable

The Spectra Cable is a strong, high-performance, braided polyethylene cable, which provides an alternative to fibre or stainless steel cables.

| Part Number |
|--------------------|
| NSPECTRA-400-ULTRA |

Technical Information

| | |
|------------------|--------------|
| Tensile Strength | Approx 181kg |
| Colour | Black |

Features

- Coated cable provides 30% more friction resistance
- Must be installed with a Teflon or co-polymer plastic cable housing liner
- Comes in a 15m (50ft) roll

Applications

- Children to adults
- Transradial and transhumeral

Spectra® Ball Cable Fitting

1” long, stainless steel ‘tie-on’ Ball Adapter for the Spectra Cable range.

| Part Number | Ball Diameter |
|-------------|---------------|
| NASPCB1 | 3/16” ball |
| NASPCB2 | 5/32” ball |

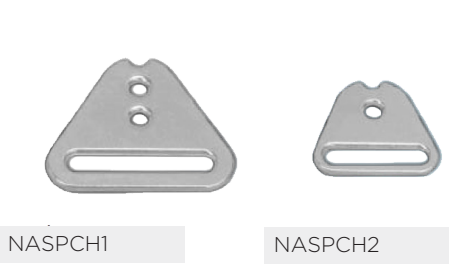


Spectra® Cable Hanger

| Part Number | For Web Width |
|-------------|---------------|
| NASPCH1 | ¾ or 1" |
| NASPCH2 | ½" |

Technical Information

| Model | NASPCH1 | NASPCH2 |
|-----------|-----------------------|---------|
| Width | 1 ⅛" | ¾" |
| Thickness | 0.06" stainless steel | |



Python Cable

Standard



Heavy-Duty



Features

- High performance, stainless steel aircraft cable
- Low coefficient of friction for reduced risk of fraying and breakage
- Fits all standard harnessing hardware
- Supplied in 7.5 metre (25 ft) long coils

| Part Number | Model |
|--------------|-------------------------|
| NPYTHON-HD-S | Heavy-Duty Python Cable |
| NPYTHON-STD | Standard Python Cable |

Technical Information

| Model | Standard | Heavy-Duty |
|----------|--------------------|--------------------|
| Diameter | ⅛" (rotary swaged) | ⅜" (rotary swaged) |

Binary Swivels

The Binary Swivels are stainless steel devices with an extra long ferrule designed to receive prosthetic cables, allowing for a ‘double swage’ capability for optimised durability and longevity. These durable components are recommended for use with the TRS Python Standard and Python Heavy Duty cables (p.31).

| Part Number | Model |
|----------------|---------------|
| NBINARY316-STD | ⅜" Standard |
| NBINARY316-HD | ⅜" Heavy Duty |
| NBINARY932-STD | ⅝" Standard |
| NBINARY932-HD | ⅝" Heavy Duty |



Heavy-Duty Cable Housing

Features

- Heavy duty stainless steel cable housing
- Accepts TRS Python Heavy-Duty Cable (⅜" diameter) or equivalent
- Accepts standard diameter prosthetic cable (⅛" diameter)
- Constructed to be used with any manufacturer’s standard heavy duty fittings; cable housing retainers, cross bars, etc.
- Supplied in 7.5 metre (25 ft) long coils

| Part Number |
|-------------|
| NACCHT25 |

Heavy-Duty Cable Housing Liner

Features

- Provides low friction, highly efficient lining for standard diameter stainless steel prosthetic cable.
- Sized to fit perfectly into Heavy Duty Cable Housing
- Special material composition eases and enhances flaring the ends of the liner
- Supplied in 7.5 metre (25 ft) long coils

| Part Number |
|-------------|
| NACCHLC |

Binary Cable Hanger System

The Binary Cable Hanger is a unique two-piece system capable of receiving double swage fittings and for use on both standard and heavy duty cables. Designed to be versatile, economical and strong.

| Part Number | Model |
|-------------|--|
| NBCH1000 | Binary Cable Hanger System |
| NBCH2000 | Binary Cable Hanger System, Heavy Duty |
| NBCH01 | Binary Hanger |
| NBCH02 | Binary Cable Connector, Standard |
| NBCH03 | Binary Cable Connector, Heavy Duty |



Technical Information

| Model | System | Binary Hanger | Cable Connector |
|------------------|--------|---------------|-----------------|
| Length | 4.6cm | 2.2cm | 3cm |
| Width | 3.6cm | 3.6cm | 0.48cm |
| Thickness (max.) | 0.56cm | 0.56cm | 0.48cm |
| Weight | 9.4g | 7.7g | 1.7g |

Cable Housing Ferrule

Features

- Press-fitted into heavy-duty housing which traps the Teflon liner inside the housing, and eliminates need to “flare” liner
- Manufactured from lubricant impregnated plastic for friction-free, quiet operation

| Part Number |
|--------------|
| NC-H-FERRULE |










Placing an order

To place an order or for more information on the Fillauer TRS Prosthetic Solutions Range, please contact our Prosthetics Customer Service Team quoting the desired part number.
Email: customerservices@steepergroup.com
Phone: +44 (0) 870 240 4133

Crossover Devices

These terminal devices have been identified as having other purposes alongside their intended use.

| Device | Action | Primary Use | Crossover Use/Action |
|---|---|--|--|
| Criterion Series  | <ul style="list-style-type: none"> Grasps handles with a small to medium diameter Pivot allows steering and improved control | Biking (Road and flat terrain) | <ul style="list-style-type: none"> Pushing/pulling Sweeping/raking Steering |
| Dragon  | <ul style="list-style-type: none"> Can securely manage pole-style handles through the 'doughnut' hole Loosely interfaces with objects Allows freedom of movement | Martial arts | <ul style="list-style-type: none"> Home management Property management Climbing Steering |
| Helix  | <ul style="list-style-type: none"> Moulded, high performance polyurethane 'DNA' helical shape replicates holding action of the hand in the control of short or long cylindrical handles grips Unique strength and flexibility feels like the hand and forearm, with reflexive energy capture, storage and release action | <ul style="list-style-type: none"> Useful in activity specific tasks that use long handles or 'sticks', such as lacrosse, hockey, raking, shovelling, garden tools Also for smaller garden tools, water hose control | |
| Ishi  | <ul style="list-style-type: none"> Adjustable grasp Secure and stable with a strap | <ul style="list-style-type: none"> Archery Fishing | <ul style="list-style-type: none"> Grooming/self-care Holding handled objects |
| Multi-D  | <ul style="list-style-type: none"> Adjustable grasp Secure, stable with strap Larger More robust | Multi-purpose | <ul style="list-style-type: none"> Home management Gardening Holding larger handled objects Fishing (salt water) |
| Swinger  | <ul style="list-style-type: none"> Loosely interfaces with objects Allows freedom of movement | Gymnastics | <ul style="list-style-type: none"> Carrying Climbing Steering Fishing |
| Raptor Sky Hook  | <ul style="list-style-type: none"> High-strength, titanium lifting and supporting terminal device Replaceable, protective tip for cushion and non-marring applications Greater friction control Pivot action increases versatility in lifting, supporting, climbing | Indoor and outdoor rock and gym climbing | <ul style="list-style-type: none"> Heavy-duty lifting and loading tasks Handling heavy goods e.g. timber panels |

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