



EXPERIENCE BODY POWER

2023 Product Catalog



Fillauer[®]
TRS Inc.

Welcome to TRS!



TRS has been helping people rebuild their lives and perform better since we started operations in 1979. An auto accident that caused the forced amputation of my left hand, when I was twenty-two years old, and the lack of satisfactory prosthetic technology in that era, spurred the TRS mission and business formula.

Now more than forty years later, we continue to innovate, develop, manufacture and sell prosthetic components designed to provide you with the best possible performance. We are experts in upper extremity sports and recreational prosthetic products. Additionally, we now are developing and manufacturing exciting products that serve persons with other physical challenges.

We are focused on innovation, constantly experimenting with new and exciting materials and designs that help us get closer to duplicating human biomechanics to achieve improved bimanual, functional performance in a vast arena of activities.

We encourage the input of medical professionals, prosthetic consumers, students, engineers and designers into what we do.

In October 2019, we were acquired by Fillauer Companies, Inc., yet we remain a small, accessible, and responsive company. Beginning in 2023, I will be working as a consultant remotely for Fillauer TRS. However, I continue to be your personal information resource and consultant at no cost to you other than your effort to reach out to us. The TRS staff cares about you the professional and you the individual.

Contact me! Talk to me personally or email me. I'll try to take the time to answer your questions about rehabilitation, limb absence and prosthetic solutions. We can also provide you with references to prosthetic professionals and facilities familiar with TRS technology in your area.

You're good, but we can probably help make you better!

Be better through "Body Power" and TRS's innovative prosthetic solutions.

We'll help you find the way.

Best regards,

Bob Radocy
Executive Vice President

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WEB SITES/MEDIA SITES

www.trsprosthetics.com

This site illustrates most all of our products, provides technical information, training information, video clips and valuable tips, as well as literature and research resources.

View additional product videos on our YouTube channel:
<http://www.youtube.com/user/TRSProsthetics/videos>

Product Images

TRS technology is illustrated and available for "download" directly from our main website. Select high quality images for your personal and professional presentations and download according to your needs. Permission is not required to use these images.

PRODUCT EVALUATIONS

Clinical Evaluation Program

Try our products in a clinical setting arranged by your prosthetist, therapist or doctor. This program allows you to review and evaluate product(s) under the supervision of a health professional for a limited time period. Products must be returned in "New" condition and a small fee is charged to access this program.

Field Trial Program

TRS can arrange a "field trial" under special circumstances with your prosthetic professional for specific products allowing you to take the product outside of a clinical setting for trial and evaluation. A fee is charged for this program.

In Services

Health professionals may take advantage of our clinical evaluation program as well as for In-Service presentations, lectures, etc. Call TRS to discuss your needs.

CUSTOM DESIGNS AND PROJECTS

TRS has developed and constructed a variety of custom prosthetic devices for both professionals and consumers. Each project is unique and some projects actually lead to products that can be manufactured on a limited basis. Contact us to discuss your ideas and needs.



Cover photo
courtesy of the
Sydney Howard
family.

Prosthetics Research ■ Design ■ Manufacturing ■ Consulting

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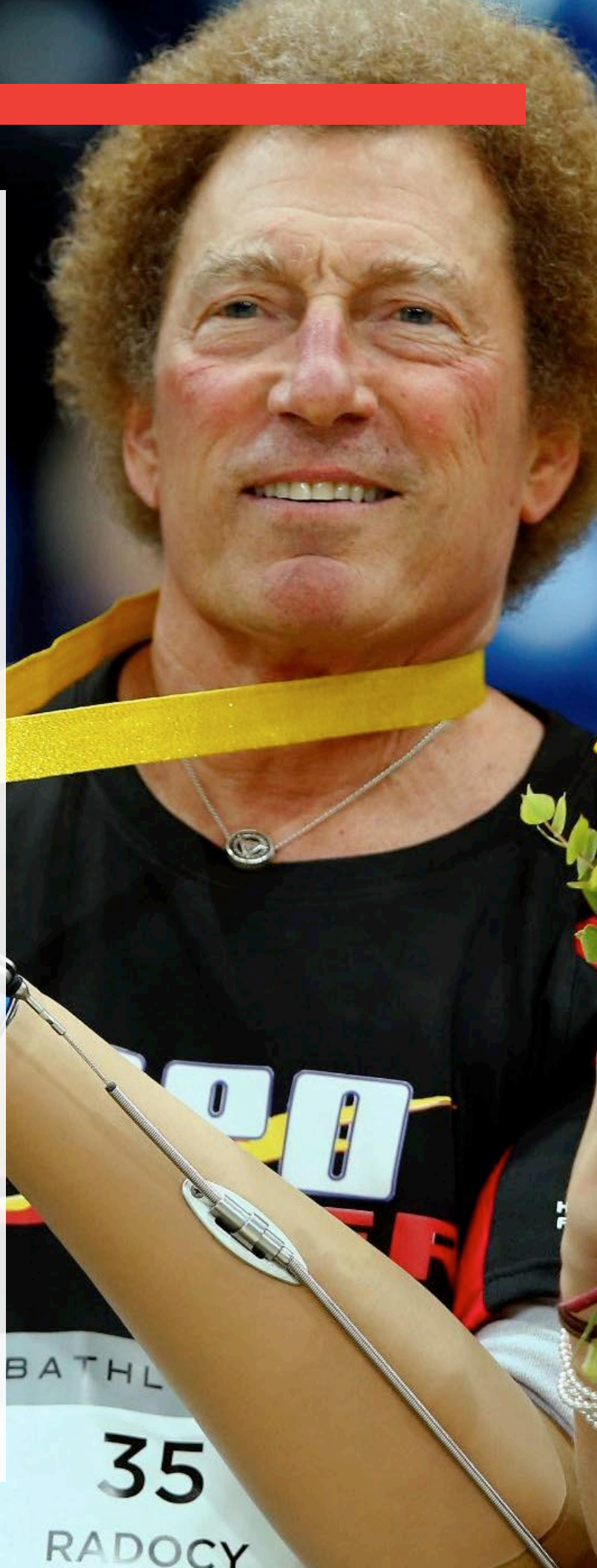
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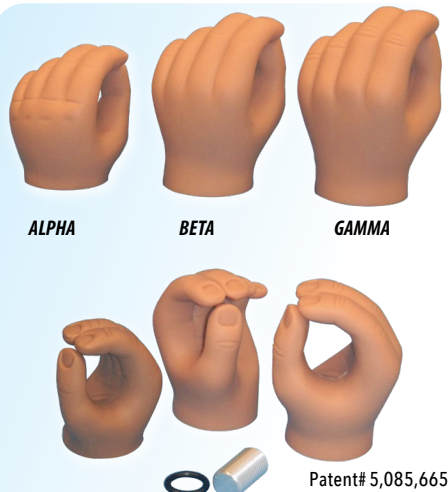
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Greek Series Infant & Pediatric Hands



Product Code: ALPHAR ALPHAL, BETAR BETAL, GAMMAR GAMMAL

Features:

- Original hand patterns were "hand-sculpted" by Bob Radocy, so in essence the **GREEK SERIES** are small, flexible sculptures.
- **ALPHA, BETA & GAMMA** are all slightly different reflecting the actual developing anatomy of the child's hand.
- Uni-sex styling and the finger nails can be "polished" for the young ladies.

- Very realistic finger and hand features, molded into all surfaces.
- Elastic, flexible holding capability, no cable required.
- Durable, soft polymer material.
- Easily cleaned and daily cleaning recommended.

Application

Age: ALPHA 4-12 months

BETA 10-24 months

GAMMA 20-36 months

Limb Length: All levels of limb absence

L-Code: L6703

SPECIFICATIONS

| Models: | ALPHA R & L | BETA R & L | GAMMA R & L |
|-----------------------|--|--------------------|--------------------|
| Length: | 2.2 in. (5 cm) | 2.5 in. (6.4 cm) | 2.75 in. (7 cm) |
| Width: | 1.6 in. (4 cm) | 1.76 in. (4.5 cm) | 1.88 in. (4.8 cm) |
| Grasp-Opening: | ~ 1.5 in. (3.8 cm) | ~ 1.7 in. (4.3 cm) | ~ 1.8 in. (4.6 cm) |
| Base Diameter: | 1.3 in. (3.3 cm) | 1.47 in. (3.7 cm) | 1.47 in. (3.7 cm) |
| Weight: | 1.8 oz. (52 g)* | 2.6 oz. (74.5 g)* | 3 oz. (86.9 g)* |
| Wrist Unit: | TRS Infant Wrist | TRS Child Wrist | TRS Child Wrist |
| Application: | 4-12 months | 10-24 months | 20-36 months |
| Colors: | Tan (T), medium brown (MB), or dark brown (DK) | | |

*Weights include the 1/2 inch diameter, threaded stud, that is removable.

L'il E-Z Infant Hand

Product Code: EZ INR, EZ INL

Features:

- A child's first, functional, anatomically correct, economically priced prosthetic hand.
- **L'il E-Zs** have unique, self-energizing grasping mechanical components, molded inside a flexible polymer body.
- The thumb opens easily to allow for an object to be inserted and held but resists easy object release.
- Useful for crawling and bilateral control as well as unilateral manipulation.
- Soft, flexible polymer fingers and hand exterior surfaces with life-like, molded anatomical features.
- No glove is required.

Application:

Age: Infants – Six months to twenty-four months old.

Limb Length: Trans-radial and trans-humeral applications.

Wrist Units: **TRS Infant** wrist made specifically for **L'il E-Z**.

Training:

TRS recommends that training with the **L'il E-Z** be conducted or supervised by a registered therapist with experience in upper limb prosthetics.

Ask TRS for the most recent published research or clinical experience information available on this product.

L-Code: L6708



SPECIFICATIONS

| Models: | L'IL E-Z RIGHT | L'IL E-Z LEFT |
|-----------------------------|---|----------------------------|
| Length: | 2.6 in. (6.6 cm) | 2.6 in. (6.6 cm) |
| Width: | 1.8 in. (4.6 cm) | 1.8 in. (4.6 cm) |
| Weight: | 3 oz. (85 g) | 3 oz. (85 g) |
| Opening: | 1 – 1.5 in. (2.5 – 3.8 cm) | 1 – 1.5 in. (2.5 – 3.8 cm) |
| Wrist Diameter: | 1.3 in. (3.3 cm) | 1.3 in. (3.3 cm) |
| Wrist Circumference: | 4.1 in. (10.4 cm) | 4.1 in. (10.4 cm) |
| Color (all models): | Tan (T), medium brown (MB), dark brown (DK) | |

*Weights include the 1/2 inch diameter, threaded stud, that is removable.

Little Feet Wood Core and Syme Models

Features:

- Bolt-on "SACH" type design with unique energy dynamics.
- **Wood Core Model:** 12–15 cm models have a high strength keel.
- **Syme Model:** All sizes with high strength keel.
- Proprietary elastomer foot body. Flexible toes.
- Anatomically very realistic.
- Special, removable heel plug improves "barefoot" appearance.

- 3 colors: Tan, medium brown and dark brown.
- Ideal for crawling, toddling, walking, etc.

Application:

Age: Infants – Six months to approximately 5–6 years old.

Limb Length: Trans-tibial and trans-femoral applications.

L-Code:

Consider **L5976**

Note:

Specify **Syme Model** if required.



SPECIFICATIONS

| Models: | 10 CM | | 11 CM | | 12 CM | | 13 CM | | 14 CM | | 15 CM | |
|----------------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | right | left | right | left | right | left | right | left | right | left | right | left |
| Product Code: | Little 10R | Little 10L | Little 11R | Little 11L | Little 12R | Little 12L | Little 13R | Little 13L | Little 14R | Little 14L | Little 15R | Little 15L |
| Length: | 3.9 in. (10 cm) | | 4.3 in. (11 cm) | | 4.7 in. (12 cm) | | 5.1 in. (13 cm) | | 5.43 in. (14 cm) | | 5.80 in. (15 cm) | |
| Width: | 1.9 in. (4.7 cm) | | 2.1 in. (5.2 cm) | | 2.2 in. (5.6 cm) | | 2.3 in. (5.9 cm) | | 2.44 in. (6.2 cm) | | 2.5 in. (6.4 cm) | |
| Height: | 1.7 in. (4.2 cm) | | 1.7 in. (4.2 cm) | | 2 in. (5 cm) | | 2.1 in. (5.2 cm) | | 2.2 in. (5.6 cm) | | 2.2 in. (5.6 cm) | |
| Weight: | 3.4 oz. (96 g) | | 4.1 oz. (117 g) | | 5.9 oz. (167 g) | | 7 oz. (199 g) | | 8.4 oz. (238 g) | | 9.3 oz. (264 g) | |
| Diameter: | | | | | | | | | | | | |
| Major: | 1.7 in. (4.4 cm) | | 1.9 in. (4.9 cm) | | 2.1 in. (5.3 cm) | | 2.2 in. (5.6 cm) | | 2.27 in. (5.8 cm) | | 2.23 in. (5.7 cm) | |
| Minor: | 1.6 in. (4 cm) | | 1.7 in. (4.3 cm) | | 1.9 in. (4.8 cm) | | 1.9 in. (4.8 cm) | | 1.94 in. (4.9 cm) | | 1.94 in. (4.9 cm) | |
| Wood Core: | 1.25 in. (3.2 cm) | | 1.5 in. (3.8 cm) | | 1.5 in. (3.8 cm) | | 1.5 in. (3.8 cm) | | 1.5 in. (3.8 cm) | | 1.5 in. (3.8 cm) | |
| Color (all models): | Tan (T), medium brown (MB), dark brown (DK) | | | | | | | | | | | |
| Mounting hole: | 5/16 inch (8 mm) diameter | | | | | | | | | | | |
| Mounting Hardware: | 5/16 x 2 in. bolt, M8 bolt, steel washer, and "T" nut (all models) 2 3/4 in. bolt also included w/ 12-15 cm. models | | | | | | | | | | | |

Children & Adults



Patent# D 402,033

Lite Touch Children's Biomechanical Hands

Features:

- High efficiency voluntary closing (pull to close) mechanics.
- Compliant fingers and surfaces.
- Molded anatomical features.
- 1/2 in. diameter threaded stud fits any USA made wrist units.
- Accessories include ADEPT Cable Adapter.
- **Sure Lok or Cable Cleat System** sold separately
- Spectra® Cable Adapters and Spectra® Cable also applicable (not included; order separately).

- Excellence in Design Award, Design News magazine, 3/6/2000.

Training:

NOTE: TRS recommends that training with **LiteTouch Hands** always be conducted or supervised by a registered therapist experienced in upper-limb prosthetics.

L-Code: L6714

SPECIFICATIONS

Models:

MICRO

right left

SMALL

right left

MEDIUM

right left

LARGE

right left

Product Code:

MLTR

MLTL

LT SM R

LT SM L

LT MD R

LT MD L

LT LG R

LT LG L

Specifications:

| | | | | |
|-----------------------------|---|------------------|------------------|-------------------|
| Length: | 2.6 in. (6.6 cm) | 3.3 in. (8.3 cm) | 3.6 in. (9.2 cm) | 4.3 in. (10.8 cm) |
| Width: | 1.9 in. (4.8 cm) | 2.3 in. (5.7 cm) | 2.4 in. (6 cm) | 2.6 in. (6.6 cm) |
| Weight: | 2.6 oz. (74 g) | 3.6 oz. (101 g) | 5.4 oz. (153 g) | 7.3 oz. (207 g) |
| Wrist Diameter: | 1.3 in. (3.3 cm) | 1.5 in. (3.8 cm) | 1.8 in. (4.4 cm) | 1.8 in. (4.4 cm) |
| Opening: | 1.1 in. (2.8 cm) | 1.6 in. (4 cm) | 1.9 in. (4.8 cm) | 2.2 in. (5.6 cm) |
| Wrist Circumference: | 4 in. (10.2 cm) | 4.7 in. (12 cm) | 5.5 in. (14 cm) | 5.5 in. (14 cm) |
| Color (all models): | Tan (T), medium brown (MB), dark brown (DK) | | | |

Application:

Age: 2-3 yrs. 3-5 yrs. 5-9 yrs. 9-young adult

Limb Length (all models): Trans-radial as well as trans-humeral applications.

Wrist Units:

TRS Infant

TRS Child

Fillauer-Hosmer® CAPP® Small Nylon

TRS® Omega Medium and Large Oval & Round

CAPP® Medium Nylon

Fillauer-Hosmer® Medium Round

Fillauer-Hosmer® Wedgegrip

Fillauer-Hosmer® Disconnect

Fillauer-Hosmer® Friction Disconnect



Product Code: LT AD R, LT AD L

Features:

- Smooth voluntary closing (pull to close) operation.
- Compliant polymer, fingers and surfaces.
- Molded anatomical details.
- 1/2 in. diameter threaded stud fits any USA made wrist units.
- Accessories include ADEPT Cable Adapter.
- **Sure Lok or Cable Cleat System** sold separately

Lite Touch Adult Hand

- **SPECTRA® Cable** and cable components also applicable (not included). Order separately.

NOTE: Light to medium duty only. Not designed to support adult hanging weight due to the flexibility of the fingers. Not applicable to manual labor.

Wrist Units

TRS® Omega Medium and Large Oval & Round

CAPP® Medium Round, Fillauer-Hosmer® Medium Round, Wedgegrip Disconnect and Friction Disconnect.

Age: Teenagers to average stature adults.

Limb Length: Trans-radial and trans-humeral applications.

Training

NOTE: TRS recommends that training with Lite Touch Adult Hands always be conducted or supervised by a registered therapist with experience in upper limb prosthetics.

L-Code: L6709

SPECIFICATIONS

Models:

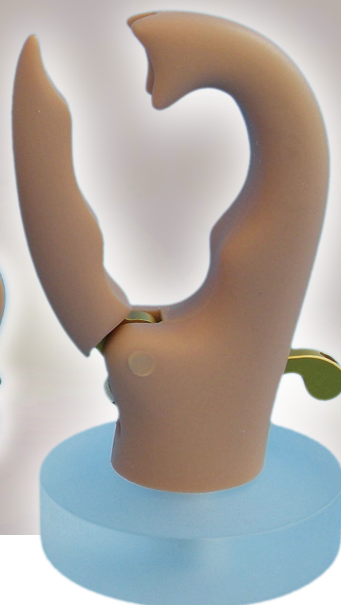
LITE TOUCH ADULT RIGHT

LITE TOUCH ADULT LEFT

| | | |
|-----------------------------|---|-------------------|
| Length: | 4.7 in. (12 cm) | 4.7 in. (12 cm) |
| Width: | 2.8 in. (7.1 cm) | 2.8 in. (7.1 cm) |
| Weight: | 10 oz. (284 g) | 10 oz. (284 g) |
| Opening: | 2.7 in. (6.9 cm) | 2.7 in. (6.9 cm) |
| Wrist Diameter: | 1.8 in. (4.6 cm) | 1.8 in. (4.6 cm) |
| Wrist Circumference: | 5.7 in. (14.4 cm) | 5.7 in. (14.4 cm) |
| Color (all models): | Tan (T), medium brown (MB), dark brown (DK) | |



Patent # D 294,174



ADEPT Prehensors

Features:

- 1/2 in. diameter threaded stud fits any USA made wrist units.
- Lightweight.
- Voluntary-closing (pull to close) cable operation.
- Active muscle use and sensory feedback.
- Replaceable thumb sleeve.
- Accessories include **ADEPT Cable Adapter**, **Sure Lok** or **Cable Cleat System** sold separately

- Award winning sculptured shape. (Museum of Modern Art collection, June 1988)

Usage:

Children wearing Adepts are capable of gripping as hard or harder than with their natural hands. This allows them to be more competitive with peers, because they can create as little or as much gripping force as they need for an activity. They can pull themselves up, swing, climb, ride a bike,

assemble models, sew, draw, tie sneakers, lace skates, swing a bat, fish, sail and much more!

Training:

NOTE: TRS recommends that training with ADEPTs always be conducted or supervised by a registered therapist experienced in upper-limb prosthetics.

L-Code: L6712

SPECIFICATIONS

| Models: | Adept f3 | Adept e4 | Adept c2 | Adept b1 |
|------------------------|------------------|------------------|------------------|-------------------|
| Product Code: | AD F3 | AD E4 | AD C2 | AD B1 |
| Length: | 2.7 in. (6.8 cm) | 3.2 in. (8 cm) | 3.7 in. (8.9 cm) | 4.3 in. (10.8 cm) |
| Width: | 1 in. (2.5 cm) | 1.1 in. (2.7 cm) | 1.1 in. (2.7 cm) | 1.2 in. (3 cm) |
| Weight: | 1.7 oz. (49 g) | 2.3 oz. (66 g) | 3 oz. (83 g) | 4 oz. (114 g) |
| Wrist Diameter: | 1.1 in. (2.7 cm) | 1.2 in. (3.7 cm) | 1.3 in. (3.3 cm) | 1.5 in. (3.8 cm) |
| Opening: | 1.3 in. (3.2 cm) | 1.6 in. (4 cm) | 2 in. (5.1 cm) | 2.5 in. (6.3 cm) |

Color (all models): Tan (T), medium brown (MB), dark brown (DK) Stealth black also available for e4, c2, and b1.

Applications:

Age: 1 – 3 3 – 5 5 – 9 9 – young adult

NOTE: Age recommendations vary with stature and maturity. ADEPT B's have been successfully used by women, who prefer a smaller, lighter duty alternative to our Grip Prehensors.

Limb Length: Trans-radial as well as trans-humeral applications.

Materials:

Aircraft grade aluminum or structural polymer support cores. Durable, high strength, stain resistant, molded polyurethane matrix composite body. Long-life, Bronze bearing system.

Wrist Units:

TRS® Infant Wrist

TRS® Infant Wrist
TRS® Child Wrist

TRS® Omega Medium Oval
TRS® Child Wrist
CAPP® Round Small
Fillauer-Hosmer® Wedgrip Oval Med.
Disconnect Oval Med.

TRS® Omega Medium or Large Oval & Round
TRS Child Wrist
CAPP® Round Small
Fillauer-Hosmer® Wedgrip Round Med.
Fillauer-Hosmer® Wedgrip Oval Med.
Disconnect Round Med.
Disconnect Oval Med.
Friction Disconnect Round Med.
Friction Disconnect Oval Med.

Prosthetics Research ■ Design ■ Manufacturing ■ Consulting

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Fillauer
TRS Inc.®



Color Inlays (Self-Adhesive)



Injection molded Outer Shells



GRIP 5 Evolution Prehensor

Features:

- 21st Century Graphics styling and shape.
- Lighter-weight, high performance voluntary-closing function
- Enhanced opening 3 PLUS INCHES
- Multiple color combinations available (Built custom to customer specifications)
- See website for color options
- Directly proportional gripping control and bio-feedback controlled by the user
- 7075 AL T6 Aircraft Aluminum and Stainless Steel core construction
- ½ inch diameter threaded stud fits all USA made wrist technologies
- Wrist Unit: TRS® Omega Large Oval & Round

L-Code: L 6722

Sure-Lok recommended and sold separately

SPECIFICATIONS

| | |
|------------------------|-------------------------------------|
| Model: | GRIP 5 |
| Product Code: | GP5000 |
| Length: | 5.2 in. (13.2 cm) |
| Width: | 1.0 in. (2.5 cm) – 1.6 in. (4.3 cm) |
| Wrist diameter: | 1.6 in. (4.3 cm) |
| Opening: | 3.06 in. (7.8 cm) |
| Weight: | 9 oz. (255 g) |
| Age: | 11- Adult |



Grip Prehensors

Features:

- 1/2 in. diameter threaded stud fits any USA made wrist units.
- High strength, reliable construction, low maintenance.
- The highest efficiency of any body powered prosthetic device available.
- Range of gripping force can exceed 100 pounds. Voluntary closing design.
- Accessories include a Binary 316STD.

Sure-Lok recommended and sold separately

Usage:

Grip Prehensors are high performance hand replacements and sophisticated tools, capable of a wide range of prehension from delicate manipulations to maximum gripping power. Slice a tomato, peel a banana, hammer, use a wrench, weight lift, shoot a bow and more!

Application:

Limb length: Trans-radial and trans-humeral applications.

Partial Hand and Flex Wrist Designs:

TRS makes special wrist adapters for partial hand and flex wrist prostheses. See photos above.

L-Code: L6722

SPECIFICATIONS

Models:

| GRIP 2SS | GRIP 2S | GRIP 3 | GRIP 1 |
|-----------|----------|--------------|--|
| Stainless | Titanium | Tan or Black | Not pictured. Not a standard model. Use only in special cases. |

Product Code:

| | GP 2 SSS | GP 2 S00 | STG 300 | GP 1 000 |
|------------------------|-------------------|-------------------|-------------------|-------------------|
| Length: | 5.6 in. (14.1 cm) | 5.6 in. (14.1 cm) | 5.7 in. (14.5 cm) | 6.5 in. (16.5 cm) |
| Width: | 0.6 in. (1.6 cm) | 0.6 in. (1.6 cm) | 0.6 in. (1.6 cm) | 0.5 in. (1.3 cm) |
| Wrist diameter: | 1.6 in. (4.1 cm) | 1.6 in. (4.1 cm) | 1.6 in. (4.1 cm) | 1.8 in. (4.4 cm) |
| Opening: | 3 in. (7.5 cm) | 3 in. (7.5 cm) | 2.8 in. (7.1 cm) | 2.6 in. (6.6 cm) |
| Weight: | 13.7 oz (390 g) | 11 oz. (312 g) | 9.8 oz (278 g) | 16 oz (451 g) |
| Age: | 11 – Adult | 11 – Adult | 11 – Adult | Adult only |

Materials:

- **Grip 2** and **Grip 1** units are all-metal.
- **Grip 2s** comes standard with titanium side plates or can be ordered with heat treated stainless steel side plates. (GP 2SSS).
- The stainless model has the best “wear” characteristics but weighs approximately 3 oz. more than the standard model.

- **Grip 3** has titanium side plates, surgical grade stainless steel structural thumb members and replaceable, polyurethane gripping surfaces.
- **Grip 3** colors: Tan (T), black (BK).
- **Grip 1** has stainless steel side plates, wrist adapter and thumb with aircraft aluminum structural core

Wrist Units:

- **TRS® Omega Large Oval & Round, Fillauer®-Hosmer® Wedge-grip, Disconnect, Friction Disconnect, FM; Medium or Large; Round or Oval.**
- Avoid economy, rubber friction wrists if possible.

Locking Pin

Product Code: ALPIN 3

Features:

- A simple, rugged, all stainless steel pin with ball detent and a 1 in. diameter finger ring to be used with modified Grip Prehensors.
- Prehensor must be modified by drilling through the outer plates with a #11 drill to accommodate this locking pin. (Instructions included.)

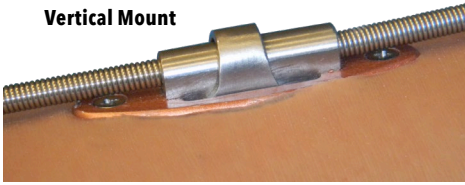
- Locking pin for Grip1, 2, and 3 designs.
- One or more locking positions are possible. Manually operated.
- Applications include weight lifting, archery, etc. Use anywhere positive, manual locking and unlocking of Grip Prehensors is desired.

NOTE: TRS does not perform the modification. Grip modification voids warranty and is non-returnable.

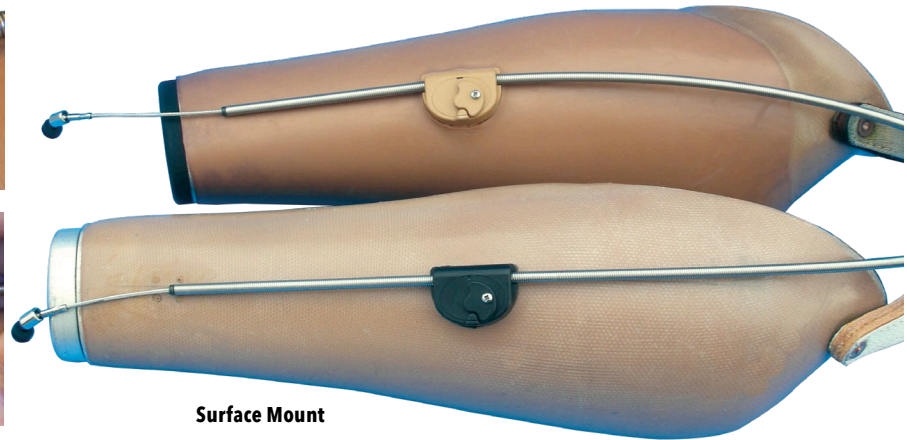
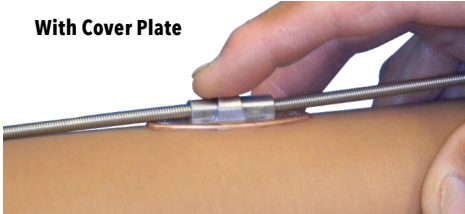


Adults

Vertical Mount



With Cover Plate



Surface Mount

Sure-Lok Cable Lock Control Systems Surface Mount & Vertical Models

Products Codes:

Surface mount

VADA Left & VADA Right (Specify R or L)

Vertical Mount

VSL 2000B (Black cover)

VSL 2000S (Silver cover)

Features:

- Applicable for both V/C and V/O operating systems... improves function and versatility
- Eliminates the need to maintain continuous cable tension for control and grasping

- Reliable, MANUAL lever actuation controlling ON /OFF operation. No fail safe release
- Replaces the standard cable, cable housing system and related hardware entirely
- System is complete & includes high performance, PYTHON STANDARD cable
- All instructions and mounting components included

L-Code:

HCPCS & PDAC recommend L9900 for the Sure-Lok systems, & L6675 or L6676 for harness & L6600 or L6665 for Cable.

SPECIFICATIONS

| | SURFACE MOUNT | VERTICAL |
|--------------------------------------|----------------------------------|---|
| Length: | 1.4 in. (3.6 cm) | 1.2 in. (3.048 cm) |
| Width: | 0.95 in. (2.4 cm) | 0.44 in. (1.12 cm) |
| Height: | 0.35 - 0.5 in. (0.9-1.3 cm) | 0.50 in. (1.27cm) |
| Color: | Both Tan & Black Covers Included | Silver or Black (Specify) Only Cover Plate Colored |
| Cover Plate Length: | NA | 2.3 in. (5.8 cm) |
| Cover Plate Width: | NA | 0.8 in. (2 cm) |
| Depth below surface required: | NA | 0.46 in. (1.17 cm) |

Application:

- Surface mount model for long residual limbs.
- Vertical mount uses up to 1/2 in. below prosthesis surface. Limited to short and mid-length limb absence.

Surface mount Sure-Lok Cable Lock and Control System Includes:

- Stainless base system designed to fit various arm radii.
- High strength polymer covers and switch levers in both tan and black.
- 18 in. of heavy duty cable housing, liner and TRS Python Standard Cable.
- 4 TRS Cable Housing Ferrules.
- Hardware.
- Complete instructions and DVD installation.

Vertical Mount Sure-Lok System Includes:

- Cover plate designed to fit various arm radii.
- 18 in. of heavy duty cable housing, liner and TRS Python Standard Cable.
- 4 TRS Cable Housing Ferrules.
- Hardware.
- Complete instructions.





Black Iron Master



Black Iron Trainer



Black Iron Trainer Pivot

Most Popular Model

Black Iron Master and Trainer

Product Code: Master: **BIM**, Trainer: **BIT**, Trainer Pivot: **BIT PIVOT**

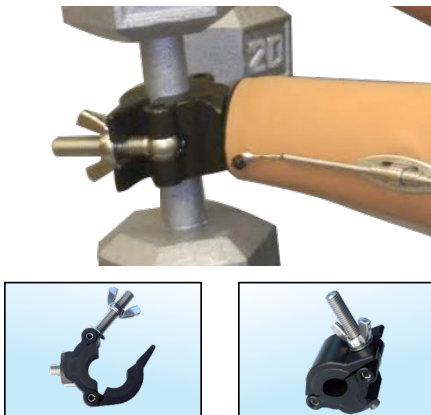
Features:

- The **Black Iron Master (BIM)** was especially designed for high performance, heavy duty and professional level weight lifting and training. The **Black Iron Master** was used in national competition at the Arnold Classic® in 2004.
- The **Black Iron Trainer** is for general everyday weight lifting. It is a lighter weight, lighter duty alternative yet still is capable of handling the wide range of grip and apparatus handle diameters that are encountered in modern fitness and exercise facilities.
- The **BIM** is for serious weight lifters only! The **BIM** is designed to mechanically grasp and lock onto handles and bars to provide unparalleled security and stability for extreme weight, bench pressing, dumbbell flys, dead lifts, squatting, etc. It is also useful for adapting to a wide variety of other exercise equipment available in modern fitness facilities.

- Swinging gate clamps the bar between curved rubber saddles. The gate is manually secured in place with a large wing nut. The **BIM and BIT** has no quick release or other break away features once clamped in place it stays in place until manually released. Used properly it will not slip or slide on the bar.
- **Black Iron Master and Trainer** can be used with the following wrist units: TRS® Omega Large Oval, Wedge grip Large Round or Oval, Disconnect Large Round or Oval, FM Disconnect Large Round
- The **Black Iron Trainer Pivot (BIT PIVOT)** provides ~32 degrees of friction-adjustable freedom in wrist motion, increasing its versatility, function and comfort. This added range-of-motion enhances the usefulness, safety and control over barbells, dumbbells and other weight training apparatus.

Wrist Units:

- **TRS® Omega Large Oval & Round**



SPECIFICATIONS

| | MASTER | TRAINER | TRAINER PIVOT |
|-----------------------|---|--|---|
| Length: | 3.5 in. (9 cm) | 2.6 in. (6.6 cm) | 3.5 in. (8.9 cm) |
| Width: | 2 in. (5 cm) | 2 in. (5.1 cm) | 3.5 in. (5.1 cm) |
| Weight: | 25 oz. (709 g) | 15.5 oz. (440 g) | 18 oz. (511 g) |
| Load Rating: | 1650 lbs. (750 kg) | 440 lbs. (200 kg) | 440 lbs. (200 kg) |
| Bar Diameters: | 0.875 in. (2.2 cm) to 1.5 in. (3.8 cm) | 0.875 in. (2.2 cm) to 1.5 in. (3.8 cm) | 0.875 in. (2.2 cm) to 1.5 in. (3.8 cm) |
| Material: | Forged aluminum, steel hardware, polymer rubber pads | Forged aluminum, steel hardware, thick polymer rubber pads | Forged aluminum, aircraft aluminum, stainless steel, thick polymer, rubber pads |
| Color: | Dark grey-black, hard anodized finish. | Dark grey-black, hard anodized finish. | Dark gray-black, hard anodized finish & stainless steel |
| Application: | Right or left. Serious, heavy duty, high performance only. | Right or left. All around weight training and lifting. | Right or left. All around weight training and lifting |
| L-Code: | L6704 | L6704 | L6704, Add-on code L6620 |

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Fillauer
TRS Inc.®



Black Iron Lite



Most Popular Model

Black Iron Lite Pivot

Black Iron Lite

Product Code: *BIL, BILPIVOT*

Features:

- The **BLACK IRON LITE** is designed for light-weight aerobic style dumbbell exercise and light weight barbell, dumbbell and cable machine, resistance exercise and training.
- The **BLACK IRON LITE** is not recommended to be used with weights in excess of ten pounds!
- The **BLACK IRON LITE** is molded from high strength polymers and is equipped with a ratchet type lock down strap for securely capturing weights and handles.

- The **BLACK IRON LITE PIVOT** is an advanced, additional, version of the BIL, which is very popular for light-weight aerobic workouts and training with free weights and other exercise apparatus. The PIVOT provides an ~ 32 extra, degrees of friction-adjustable freedom, in wrist movement. This added range of motion enhances the usefulness and performance of the BIL providing better, more comfortable control of exercise equipment. The added wrist function enables an "Add-on" LCODE (L6620) to the primary L6704.

Application:

- Right or Left. Light duty weight training and exercise
- Aerobic/dance style dumbbell exercise
- **BLACK IRON LITE** units can be used with the following wrist units: TRS® Omega Large Oval, All Wedgegrips, All Disconnects, FM Disconnect

Wrist Units:

- **TRS® Omega Large Oval & Round**

SPECIFICATIONS

| Models: | BLACK IRON LITE | BLACK IRON LITE PIVOT |
|-----------------------|---|--------------------------|
| Product Code: | <i>BIL</i> | <i>BIL PIVOT</i> |
| Length: | 3.3 in. (8.4 cm) | 4.4 in. (11 cm) |
| Width: | 2.0 in. (5.1 cm) | 2.0 in. (5.1 cm) |
| Weight: | 11.7 oz. (332 g) | 13.0 oz. (369 g) |
| Load Rating: | Not recommended for weights in excess of 10 pounds (4.5 kg) | |
| Bar Diameters: | 0.875 in. (2.2 cm) to 1.5 in. (3.8 cm) | |
| Material: | High strength polyurethane and nylon. | |
| Colors: | Black, Teal (TL), Violet (V) | Black |
| L-Code: | L6704 | L6704, Add-on code L6620 |

Super Sports

Features:

- Flexible, strong, durable polyurethane elastomers. Stainless steel and aluminum support cores.
- 1/2 in. diameter threaded stud fits any USA made wrist units.
- Passive. Not cable operated.
- The polymer flexes and extends with external pressure and absorbs shock.
- Anatomically proportioned to a "cupped" hand.

Usage:

SuperSports are designed to enable two-handed performance in all types of

recreational and athletic activities, especially those in which player contact and collision can occur. Successful application can be expected in basketball, soccer, football, volleyball, skating, jogging, aerobics, dance, martial arts . . . and much more. **SuperSports** have also been used very successfully by parents in handling infants and playing with children.

Application:

Limb Length: Trans-radial and long trans-humeral limb lengths.

L-Code: L6704



Patent 5,085,665



SPECIFICATIONS

Models:

Product Code:

| | SUPER SPORTS 4 SS4 | SUPER SPORTS 3 SS3 | SUPER SPORTS 2 SS2 | SUPER SPORTS 1 SS1 |
|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Length: | 3.3 in. (8.5 cm) | 4.3 in. (10.8 cm) | 4.8 in. (12 cm) | 5.5 in. (14 cm) |
| Width: | 1.9 in. (4.8 cm) | 2.2 in. (5.6 cm) | 2.6 in. (6.5 cm) | 3 in. (7.7 cm) |
| Weight: | 3 oz. (89 g) | 5 oz (139 g) | 7 oz (190 g) | 12 oz (332 g) |
| Wrist diameter: | 1.2 in. (3 cm) | 1.5 in. (3.8 cm) | 1.7 in. (4.3 cm) | 1.8 in. (4.6 cm) |
| Age: | 2 – 6 | 6 – 13 | 13 – Adult | Adult |

Color (all models): Tan (T), medium brown (MB) or dark brown (DK). Black available by special order!

Wrist Units:

Models 3 and 4: TRS Child, CAPP® Round Small, Fillauer®-Hosmer® Wedgegrip, Disconnect Medium; Round or Oval

Models 1 and 2: TRS® Omega Medium and Large Oval & Round, Fillauer®-Hosmer® Wedgegrip, Disconnect, Friction Disconnect, FM; Friction Disconnect, FM; Medium; Round or Oval. **NOTE:** Check exact diameter of TD and wrist for best match.



Patent 5,085,665



Free - Flex

Features:

- Strong, flexible, polyurethane elastomer.
- Realistic anatomical features molded into back-hand surface.
- Smooth, scoop-shaped, volar (palmar) surface.
- **Free-Flex** devices extend, flex and absorb shock under external force then rebound to original shape using stored energy. No cable required.
- 1/2 in. diameter threaded stud fits any USA made wrist units.

L-Code: L6704

SPECIFICATIONS

Models:

Product Code:

| | 4 RIGHT FF4R | 4 LEFT FF4L | 3 RIGHT FF3R | 3 LEFT FF3L | 2 RIGHT FF2R | 2 LEFT FF2L | 1 RIGHT FF1R | 1 LEFT FF1L |
|-----------------------------|------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|
| Length: | 3.2 in. (8 cm) | | 4.2 in. (10.7 cm) | | 4.8 in. (12 cm) | | 5.5 in. (14 cm) | |
| Width: | 2.1 in. (5.3 cm) | | 2.6 in. (6.6 cm) | | 2.8 in. (7 cm) | | 3.3 in. (8.4 cm) | |
| Weight: | 3 oz. (80 g) | | 5 oz. (139 g) | 7 oz. (195 g) | 9 oz. (266 g) | | | |
| Wrist Diameter: | 1.5 in. (3.8 cm) | | 1.5 in. (3.8 cm) | | 1.7 in. (4.3 cm) | | 1.7 in. (4.3 cm) | |
| Wrist Circumference: | 4.7 in. (12 cm) | | 4.7 in. (12 cm) | | 5.3 in. (13.5 cm) | | 5.3 in. (13.5 cm) | |

Color (all models): Tan (T), medium brown (MB), or dark brown (DK). Black available by special order!

Age: 2 – 6 6 – 13 13 – Adult Adult

Limb Length: All models trans-radial, some trans-humeral (mid- to long), patient/consumer dependent.

Wrist Units:

Models 3 and 4: TRS Child, CAPP® Round Small, Fillauer®-Hosmer® Wedgegrip, Disconnect Medium; Round or Oval

Models 1 and 2: TRS® Omega Medium and Large Oval & Round, Fillauer®-Hosmer® Wedgegrip, Disconnect, Friction Disconnect, FM; Friction Disconnect; Medium; Round or Oval. **NOTE:** Check exact diameter of TD and wrist for best match.

Sports & Recreation



Mill's Rebound Pro Basketball Hand

Product Code: REBOUND

Features

- The **ReBound Basketball Hand** is a unique prosthetic accessory born from the invention and efforts of the Mill's family in Colorado. It is a versatile, flexible, safe, product for amputees wishing to use a prosthesis.
- The **ReBound** is constructed of a compliant polymer which is flexible but very strong. The resilient polymer material and innovative design provide excellent ball handling capability by simulating hand, wrist and finger-like control action.
- Friction discs molded onto the palmer surface of the **ReBound** provide additional traction for control.

- 1/2 in. diameter threaded stud fits any USA made wrist units.

L-CODE: L6704

SPECIFICATIONS

| | |
|-----------------------------|---|
| Length: | 7.5 in. (19 cm) |
| Width: | 7 in. (17 cm) |
| Wrist Diameter: | 1.6 in. (4.1 cm) |
| Wrist Circumference: | 5.1 in. (13. cm) |
| Weight: | 6.5 oz. (184 g) |
| Color: | Black standard. Tan & Custom add extra charge. |
| Age: | 10+ up |



HP Hoopster

Product Codes: HP HOOPSTER

The **HP HOOPSTER** was conceived and designed by elite, bi-lateral, amputee athlete **Hector Picard**. TRS refined Hector's original model, under his guidance, to make it more versatile to meet the needs of a broader audience.

Features:

- A stiff but flexible dual surface "hoop", which captures the circumference of a basketball perfectly. Dorsal and ventral (palmer) ball control surfaces.
- Provides surfaces to dribble and expertly handle the ball on the court surface then simultaneously flip the ball up for shots.

- Built in palmer or volar "heel" to help capture and stabilize the ball quickly for greater accuracy.
- High performance, polymer construction, with standard, stainless mounting hardware.
- Pre-positionable, lockable, wrist angle mechanism optimizes the terminal device's wrist "extension" angle, to suit the user's specific needs and functional capability.

Applications:

Age: Teenager / Adult

Limb Length: Trans-radial and trans-humeral applications

L-Code: L6704

SPECIFICATIONS

| | |
|-------------------|--|
| Length: | 8.75 in. (22.2 cm) |
| Diameter: | 7.625 in. (19.4 cm) |
| Thickness: | Hoop .75 in. (1.9 cm) Wrist (Heel) 1.75 in. (4.4 cm) |
| Weight: | 6.0 oz. (170 g) |
| Material: | High performance polyurethane polymer |
| Color: | Stealth Black & Satin Stainless |

Barrage Volley Ball TD

Product Code: BARRAGE

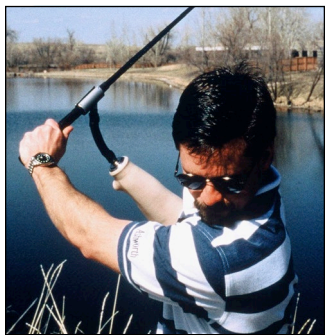
Features:

- Unique design and surfaces to enhance volleyball specific competition.
- Conforms to anatomy and proportions of a human hand with extended fingers.
- Resilient and flexible to mimic various hand actions and "feel".
- Capable of performing setting, bumping, digging and blocking maneuvers.
- No right or left
- Developed over almost a year for design, prototyping and field testing.

L-Code: L 6704

SPECIFICATIONS

| | |
|-------------------|--|
| Length: | 5.1 in. (12.9 cm) |
| Width: | 5.3 in. (13.4 cm) |
| Thickness: | Varies but .50 in. (1.3 cm) |
| Material: | Proprietary, high performance, flexible polyurethane |
| Color: | Black, Teal (TL) |
| Weight: | 8.5 oz (241 g) |



Custom Trans Humeral



Left



Left



Right

Golf Pro Systems

Product Code: GOLF PRO R, GOLF PRO L

Application:

- **Golf Pro** models slip over club shaft and then slide up to jam onto the grip.
- Internal plastic sizing rings can be enlarged to custom fit the user's clubs.
- Uniform club grips are recommended.
- 1/2 in. diameter threaded stud fits any USA made wrist units.
- **Golf Pros** provide for a fluid backswing and downswing with excellent control and are easy to use.

L-Code: L6704

SPECIFICATIONS

| Model: | GOLF PRO RIGHT | GOLF PRO LEFT |
|----------------|-----------------------------------|-----------------------------------|
| | Replaces lower hand on club grip. | Replaces upper hand on club grip. |
| Length: | 6.75 in. (17 cm) | 5 in. (13 cm) |
| Weight: | 8 oz. (227 g) | 7.5 oz (213 g) |

Eagle Flex Golf TD

Product Code: EAGLE FLEX

Features:

- Utilizes a flexible polymer body that is slotted to receive the club shaft and then is pulled up onto the club's grip. The flexible channel adapts to a wide variety of grip styles, tapers and sizes.
- The **Eagle Flex** sports a replaceable, steel braid reinforced, flexible coupling for ultimate durability.

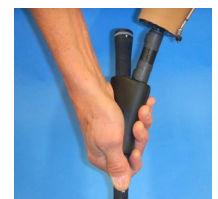
Applications:

- Right or left hand uni-lateral absence. Replaces upper hand on club grip.
- Requires minimal second hand assistance to engage **Eagle Flex** to club grip.

L-Code: L6704

SPECIFICATIONS

| | |
|-----------------------------|----------------------------------|
| Overall length: | 7.0 in. (18cm) |
| Grip Channel Length: | 4.25 in. (11cm) |
| Width: | 1.5 in. (3.8cm) |
| Height: | 2.5 in. (6.4cm) |
| Weight: | 8.0 oz. (227g) |
| Color: | Stealth Black |
| Materials: | Polyurethane and stainless steel |





Swinger TD

Product Code: **SWINGER**

What kid does not want to climb and swing? Finally a well designed and engineered, reliable hanging and swinging TD for pull up exercise, swinging and high bar and parallel bar gymnastics.

The **SWINGER** was developed over nine months of design and field testing resulting in a versatile gymnastics grade, swing hook capable of 360 degree performance, mounts and dismounts. The TD has an aircraft, aluminum, reinforcing core that provides exceptional strength and it is encased in molded, abrasion resistant polyurethane rubber. Sized for the uneven parallel bars the **SWINGER** has a design optimized for "Approach, Capture and Release" of the bar. A "Stance Saddle" provides "above the bar" forearm stability and support.

Go to the link below to view a video of the **SWINGER** in use!

<http://www.youtube.com/watch?v=pMQL7H0divg>

Features:

- Designed for children and adults. Tested to 300 pounds load.
- Nine months in development and field-testing.
- Unique "offset" swing hook center and pivot design.
- Natural bar "Approach", "Capture" and "Swing control" elements.
- Stance "saddle" for above bar support.
- 360 swing performance capability.
- Optimized "Grasp Aperture" for bar Capture and Release capability.
- High strength, stress analyzed, aircraft aluminum (7075 ALT6) alloy core.
- Molded, abrasion resistant, polyurethane rubber, exterior surface.

L-Code: L6704



SPECIFICATIONS

| | |
|----------------------|--|
| Length: | 3.8 in. (9.6 cm) |
| Width: | 3.3 in. (8.4 cm) |
| Thickness: | 1.4 in. (3.5 cm) |
| Opening: | 1.8 in. (4.6 cm) |
| Weight: | 8 oz. (227 g) |
| Colors: | Black, Blue (BLU), Teal (TL), Violet (V) |
| Applications: | Children, youth and adults |

Shroom Tumblers

Product Code: **SHROOM** and **MINI SHROOM**

Features:

- Unique mushroom shaped accessory for floor exercise and tumbling.
- Flexible, high strength, synthetic polymer rubber.
- Supports weight up to two hundred pounds.
- Omni-directional flexibility for cart wheels, flips and hand stands.

- Progressively cushions impact and allows for easy "roll-over".
- Proportioned to duplicate the surface area of the palm and fingers.

Applications:

Children 7 – 8 years and older, all adults.
Primarily trans-radial conditions.

L-Code: L6704

SPECIFICATIONS

| Model: | SHROOM TUMBLER | MINI SHROOM TUMBLER |
|------------------|--|--|
| Diameter: | 3.5 in. (8.9 cm) | 2.7 in. (6.9 cm) |
| Height: | 2 in. (5 cm) | 1.6 in. (4.1 cm) |
| Weight: | 5.5 oz. (156 g) | 3 oz. (85 g) |
| Color: | Black, Blue (BLU), Pink (PNK), Purple (PUR), Teal (TL) | Black, Blue (BLU), Pink (PNK), Teal (TL) |
| Mounting: | 1/2 inch diameter, threaded stud. | |
| Age: | Wide variability call to discuss application | |





Cobra Baseball, Softball, and Cricket Throwing TDs

Patent US 8,984,736 B2

Product Code: COBRA, COBRASB11, COBRASB12

Features:

- Models for baseball (hardball), slow and fast pitch softballs.
- Models for softballs with both 11 inch and 12 inch circumferences.
- Each model design is universal right or left.
- TRS energy capture and release polymer technology.

- Fully adjustable for ball release and throwing angles.
- Optimizes control, trajectory & speed.
- Duplicates instinctive throwing style/skills. . . throw hard and accurately
- COBRA has achieved 50 + MPH fastballs
- COBRA has achieved accurate throws to 30 yards +.
- COBRAs come with a ball that should stay installed in the unit at all times.

L-Code: L6704

SPECIFICATIONS

| Models: | COBRA | COBRASB11 | COBRASB12 |
|----------------|--------------------------|-------------------|-------------------|
| Length: | 7.0 in. (18 cm) | 7.5 in. (19 cm) | 8.0 in. (20.3 cm) |
| Width: | 3.5 in. (9 cm) | 4.0 in. (10.2 cm) | 4.3 in. (11 cm) |
| Weight: | 8 oz. (227 g) | 9.5 oz. (270 g) | 10.5 oz. (298 g) |
| Color: | All Models Stealth Black | | |



HI-Fly Fielder

Product Code: HFF PSR

Features:

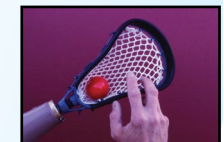
- Flexible mesh pocket allows for catching either **forehanded or backhanded**, eliminating the need for forearm rotation.
- **Hi-fly Fielder** pocket will handle both baseballs and softballs.

- 1/2 in. diameter threaded stud fits any USA made wrist units.
- Rotates with adjustable friction to accommodate varying field situations.
- Padded leading edge.
- Lightweight and strong.

L-Code: L6704

SPECIFICATIONS

| Models: | HI-FLY FIELDER |
|----------------------|--|
| Length: | 12.75 in. (32 cm) |
| Width (max.): | 7.5 in. (19 cm) |
| Thickness: | 1.8 in. (4.5 cm) |
| Weight: | 11 oz. (314 g) |
| Color: | Black w/black trim |
| Age: | Youth/Adult |
| Materials: | Structural nylon, rubber, stainless steel, braided mesh. |



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Fillauer
TRS Inc.

Pinch Hitter Bat Adapters



Product Codes: PINCHITTER, PINCHITTER HD, PINCHITTER FLEX

- 3 Models: **Pinch Hitter**, **Pinch Hitter Heavy Duty**, **Pinch Hitter Flex**
- The **Pinch Hitter** was designed for "Little League" age kids or persons with smaller hand proportions, who wish to swing a bat using the function and power of both arms.
- The **Pinch Hitter Heavy Duty** is designed for adults and larger, older kids who need more performance.
- The **Pinch Hitter Flex** is designed for adults and those who play a lot of baseball and

or softball and want the convenience of a replaceable Flexible Coupling and/or who need a longer adapter.

- The **Pinch Hitters** are constructed of high performance, strong, flexible synthetic rubber and they snap on and off aluminum bat handles for safety. They all need to be "over-gripped" with the second hand for security when swinging a bat. They can be used either right or left handed but perform best on the leading hand and arm.
- The **Pinch Hitters** not only transfer body power and energy but can store and release energy. This feature helps improve and control bat swing, improve swing speed and increase ball hitting distances.
- The **Pinch Hitters** will screw into standard prosthetic wrists or disconnect style wrist adapters.

Application:

PINCH HITTER: Kids and Little Leaguers

PINCH HITTER HD: Adults, young adults and older children

PINCH HITTER FLEX: Adults planning on a lot of aggressive use.

L-Code: L6704



SPECIFICATIONS

| | PINCH HITTER | PINCH HITTER HD | PINCH HITTER FLEX |
|------------------|--|------------------|-------------------|
| Length: | 4.5 in. (11 cm) | 5.0 in. (13 cm) | 6.5 in. (16.5 cm) |
| Width: | 1.5 in. (3.8 cm) | 1.5 in. (3.8 cm) | 1.5 in. (3.8 cm) |
| Weight: | 4 oz. (114 g) | 5 oz. (142 g) | 8 oz. (227 g) |
| Color: | All models Matte Black | | |
| Material: | All models TRS proprietary flexible polymer rubber | | |



Grand Slam TD

Product Code: GRAND SLAM TD Features:

- **Grand Slam TDs** provide for powerful, smooth, two-handed swings. Releases bat easily. Baseball and softball.
- Flexible polyurethane body securely captures bat handles
- Force on and pry off design for standard one-inch diameter bat handles
- "Over-grip" with sound hand is required
- Flexible, replaceable coupling provides for powerful swings
- Replicates the bio-mechanics needed for safe, controlled bat swinging

- ½ inch diameter threaded stud fits any USA made wrist units

Applications:

Age: Teenagers and adults.

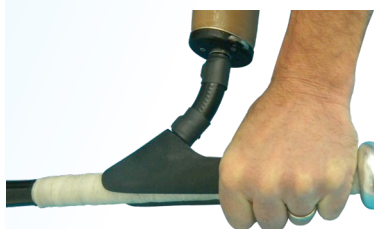
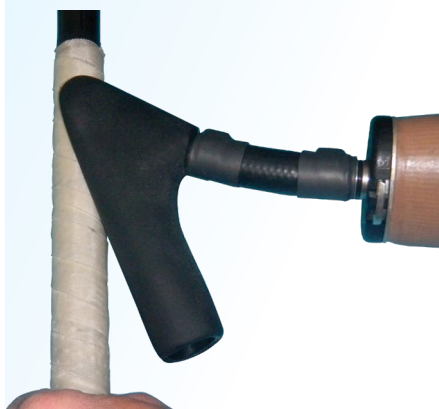
Limb Length: Primarily designed for unilateral, trans-radial hand absence. Certain applications for long trans-humeral.

Wrist Units: Any wrist which accepts a standard ½ in. diameter threaded fitting.

L-Code: L6704

SPECIFICATIONS

| Models: | GRAND SLAM TD |
|-------------------|-------------------|
| Length: | 6.0 in. (15.2 cm) |
| Height: | 5 in. (11.4 cm) |
| Thickness: | 1.5 in. (3.8 cm) |
| Weight: | 8.5 Oz. (241 g) |



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Downhill Racer Ski TD Pediatric and Adult models

Product Codes: **SKIRACER LEFT/RIGHT** Archery Features:

- "Snap-In" and "Pop-Out" pole action for safety and convenience.
- Pre-Flexed pole angle for snow clearance.
- Solid, FLEXIBLE, high performance polyurethane construction.
- Designed to fit 5/8 inch. (~1.6 cm) diameter poles but modifiable for other equipment.
- Applicable to "Alpine" (downhill) and "Nordic" (cross-country) skiing.
- Applicable to mountaineering and hiking-climbing poles/sticks.
- Multiple flexibilities available to meet specific age, weight and performance criteria.
- Rubber "Press-on" pole cap for protection
- We will custom formulate the urethane material to meet the user's needs!

L-Code: L6704

SPECIFICATIONS

| | |
|-------------------|--|
| Length: | 3.3 in. (8.4 cm) |
| Width: | 2.5 in. (6.4 cm) |
| Thickness: | 1.3 in. (3.3 cm) |
| Weight: | 4 oz. (114 g) |
| Color: | Black, Blue (BLU), Teal (TL), Violet (V) |

The Downhill Racer was developed over three years with the help of Audrey and her family. Audrey is excelling as a world champion skier and para-skier in the slalom and GS.

Sports & Recreation



SkiTrek

Product Code: SKITREK

Features:

- The SkiTrek was designed for several types of activities that use ski poles or walking / hiking poles. The design accommodates poles for both "Alpine" and "Nordic" skiing, as well as poles for hiking-trekking activities. This terminal device (TD) will easily connect via any USA standard prosthetic wrist (1/2-20 thread).

Applications:

- Nordic (cross-country) and alpine (downhill) techniques.
- Hiking and trekking activities.
- Youth through adult.
- Can be used with or without a prosthetic control cable.

L-Code: L6704

SPECIFICATIONS

| | |
|--------------------|---|
| Length: | 3.6 in. (9.1 cm) |
| Width: | 2.0 in. (5.1 cm) |
| Height: | 5.5 in. (1.4 cm) |
| Weight: | 7.5 oz. (213 g) |
| Fitting: | 1/2-20 |
| Color: | Black |
| Application | Children 11 years and older through adult |

Power Play Hockey

Product Code: POWER PLAY

Features:

- The **Power Play** is a high performance prosthetic device for playing ice hockey. The **Power Play** is designed to securely, slide-fit down over the last five inches of the hockey stick for "top of the stick" handling control.
- The safe, all polymer construction is available in two stiffness models.
- **85** standard, most popular. **95** special order, special applications.

- The **Power Play** provides for quick, agile stick and puck control and powerful shots. The energy storing design performs much like the human forearm and wrist. The **Power Play** flexes and rebounds for shots and will bend away under load to prevent injury during a fall or while being "checked into" the boards.
- The **Power Play** can easily be modified to provide the exact level of flexibility and power that the individual player demands making it extremely versatile.

L-Code: L6704

SPECIFICATIONS

| | |
|--------------------------|--|
| Overall length: | 9 in. (23 cm) |
| Effective length: | 4 in. (10 cm) Length it adds to prosthesis before stick attachment |
| Weight: | 11.5 oz. (326 g) |
| Color: | Black |
| Applications: | Trans-radial and long trans-humeral |
| Fitting: | 1/2-20 |





Helix Left

Helix Right

Helix

Product Code: *HELIX L, HELIX R*

Features:

- Amazing! Flexible, "DNA" HELIX Coils for control
- Weave – In, "Snap – In" and Snap-Out connection system
- Incredible flexible-strength and external, energy capture and return action
- Flexible Helix Coils accept a wide range of diameters and shapes

- Replicates the motion and "feels like" a real human hand and forearm.

Application:

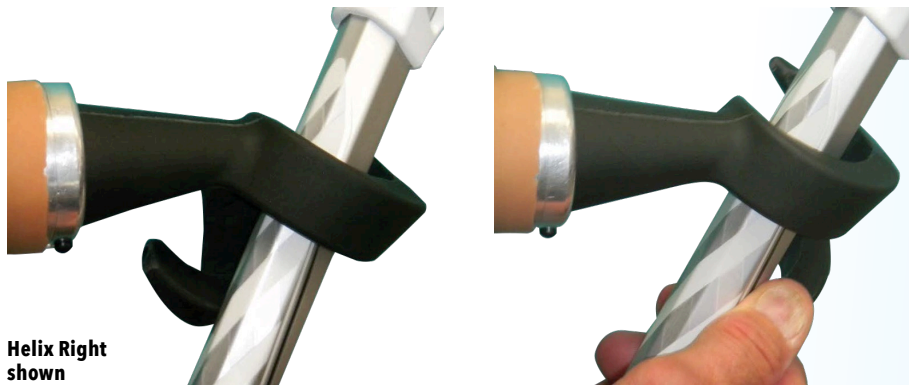
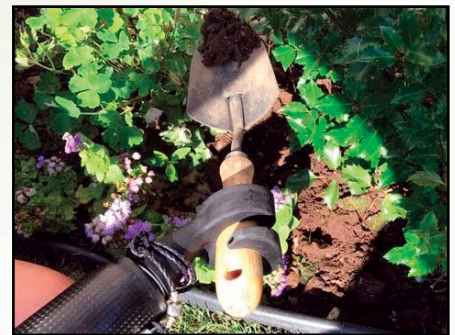
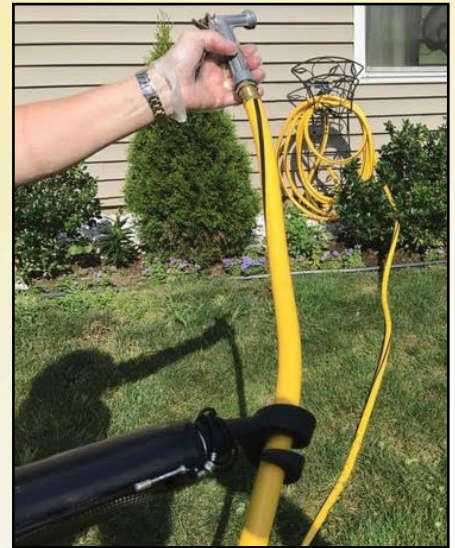
- The Helix is a "TRUE" Cross-Over, Vocational-Avocational TD. Perfect for all long handle instrument and tools, rakes, shovels, garden implements, as well as sports activities like Lacrosse, ice and street hockey, field hockey, Cricket.... Innumerable uses!

L-Code: *L6704*

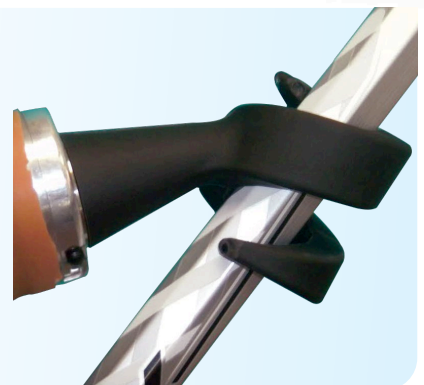
Patent #: *D 835,787*

SPECIFICATIONS

| | Helix Right | Helix Left |
|-----------------------------|--|------------------|
| Product Code: | Helix R | Helix L |
| Length: | 4.4 in. (11 cm) | 4.4 in. (11 cm) |
| Width (Flexible OD): | 2.2 in. (5.6 cm) | 2.2 in. (5.6 cm) |
| Shaft (Flexible ID): | 1.2 in. (3 cm) | 1.2 in. (3 cm) |
| Base Unit Diameter: | 1.4 in. (3.6 cm) | 1.4 in. (3.6 cm) |
| Weight: | 5.0 oz. (142 g) | 5.0 oz. (142 g) |
| Color: | Stealth Black Alternate Colors: Extra charge | |



Helix Right shown



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SPECIFICATIONS

| | |
|--------------------------|-------------------|
| Length w/o Strap: | 2.5 in. (6.4 cm) |
| Strap Length: | 12 in. (30.5 cm) |
| Width: | 1.5 in. (3.8 cm) |
| Height: | 1.75 in. (4.4 cm) |
| Weight: | 4.5 oz. (128 g) |
| Color: | Satin Black |



Flexible Thing

Product Code: **FLEXTHING**

Features:

- Simple, reliable and waterproof
- Aircraft aluminum and stainless steel machined components
- Strong Flexible, "grippy", strap rated at 1000 pounds tension
- Swivel buckle for securing strap in activities where spontaneous release is not required for safety
- Friction adjustable pivoting wrist
- Replaceable, modifiable strap
- Excellent range of motion

Application:

- Cross-over terminal device for multiple applications/ages
- Water sports like waterskiing and similar activities using a hand held tow rope and handle
- Broad range of long handle tool applications, such as shovels and rakes
- Heavy duty capacity for carrying tool boxes or equipment with handles
- Adults and teenagers. Trans-radial and trans-humeral applications with appropriate sports prosthesis

L-Code: **L6704, Add-on L6620**

Features:

- Strong, quick release, one inch wide, ratchet and buckle system.
- Adjustable diameters from 1-1/8 inches to 1-3/4 inches (plus) wide
- High strength, flexible and resilient body, replicates wrist and forearm biomechanics
- Excellent "rocker" action allows for wide angles of control.
- Kayaking, Rowing, Long handle Tool Control, Shovels, Rakes, Axes, Hatchets, String Trimmers.
- Equipped with standard 1/2 in. diameter threaded prosthetic mounting connector.
- The **MULTI-D PIVOT** is an advanced, additional version—a TRUE cross-over TD. The PIVOT provides ~32 extra degrees of friction adjustable freedom in wrist motion, improving performance and comfort in both vocational and avocational activities.

Multi-D TD

(Multi-Diameter | Multi Duty)



Multi-D



Multi-D Pivot

Most Popular Model

SPECIFICATIONS

Models:

Product Code:

| | MULTI-D MULTI-D | MULTI-D PIVOT MULTIDPIVOT |
|------------------------------|---|--|
| Length: | 3.8 in. (9.7 cm) | 4.55 in. (11.6 cm) |
| Width: | 2.0 in. (5.1 cm) | 2.0 in. (5.1 cm) |
| Weight: | 9.6 oz. (272 g) | 11.4 oz. (323 g) |
| Adjustable Diameters: | 1.125 in. (2.86 cm)–1.750 in. (4.5 cm) (+) "plus" | |
| Colors: | Black, other colors available by request may be additional charge | |
| L-Code: | L6704 | L6704, Add-on code L6620 |





Hammerhead

Product Code: KAYAK , KAYAK PIVOT

Features:

- Improved design provides more natural "wrist action."
- Energy storing, wrap around, flexible strap coupling:
- Positively and safely secures paddle handle.
- Releases manually and quickly.
- Duplicates the bio-mechanical wrist action required for performance kayaking.
- Aggressive, non-marring, friction surfaces for high torque paddle control.
- Mounts on any standard prosthesis or accepts any USA Standard disconnect adapter.
- Strong and reliable!
- Synthetic polymer construction with stainless hardware.
- The PIVOT provides ~32 extra, degrees of friction adjustable freedom, in wrist movement, perfect for replicating kayak paddling biomechanics. This added range of motion enhances the usefulness and performance of the Hammerhead providing better, more powerful control over the paddle.
- **Other Applications:** Canoeing and rowing water sports applications possible with handle modifications.

SPECIFICATIONS

Model:

HAMMERHEAD PIVOT

Product Code:

KAYAK PIVOT

Length: 5 in. (12.7 cm)

Width: 2.7 in. (7 cm)

Weight: 13.5 oz. (383 g)

Colors: Black & Stainless

L-Code: L6704, Add-on code L6620



Criterion+ Bicycle Handlebar Adapter



NEW

Product Code: CRITERIUM PLUS

Features:

- High performance bike prosthetic device capable of engaging in BMX style racing and a variety of other types of bicycle activities including road/off road and mountain biking.
- Captures and holds a variety of handlebar grip diameters for other vehicles like ATVs, push and riding lawn mowers and other types of motorized and non-motorized equipment controlled by levers and or handlebars.
- Multiple "cross-over" applications for holding a wide variety of smaller diameter (1.5 inches and less) cylindrical shaped objects, tools, handles and equipment.
- No cable required. Pushes-Snaps "ON" and Pulls-Levers "OFF" cylindrical bars and grips but never locks in place!

SPECIFICATIONS

| | |
|--|---|
| Length: | 4.1 in. (10.4 cm) |
| Distance of wrist face to center of Handlebars: | ~2.7 in. (~ 5 cm) |
| Width: | ~ 2.3 in. (~5.8 cm) |
| Height: | ~ 2.4 in. (~6.0 cm) |
| Color: | Stealth Black and Silver (Other colors may be available in the future. Please inquire!) |
| Weight: | ~ 6.5 oz. (~184 g) |
| Application | Children 10 years and older through adult (See note in "Features" about single spring for younger age users) |

- Powered by two strong (non-adjustable) extension springs providing exceptional grasping force for optimal control and safety. One spring may be removed by prosthetic professional for younger age applications as necessary.
- "Add-on" radial/ulnar, friction adjustable, wrist component that uses a USA, standard, threaded prosthetic mounting system. We recommend using the Criterion PLUS with a "friction, quick-disconnect" wrist like the OMEGA Wrist System, for the best performance.
- Totally waterproof, tough materials including aircraft aluminum and structural grade nylons
- Low maintenance

L-Code: L6704, Add-on L6620

Criterion Bicycle Handlebar Adapters

Criterion Pivot ■ Criterion Pivot Short



Criterion Pivot

Criterion Pivot Short

Product Codes: PIVOT 70 or 85
PIVOT SHORT 70 or 85

Features:

- All models available in either of two hardness 70 & 85
- All models snap/pull ON and OFF 7/8 in. diameter bicycle handlebars
- **Pivot** version is two piece allowing for much greater angulation and arm torque with adjustable friction pivot mechanism... higher performance and more difficult to release from the bars.
- **Pivot Short** can be used for children as young as three years old. Older children and adults use the Firm version. Both are compact in length and have a built-in wrist pivot for greater versatility and control.
- 70 references the hardness or "Durometer" of the material. The 70 model is softer, more flexible and forgiving than the 85 model.

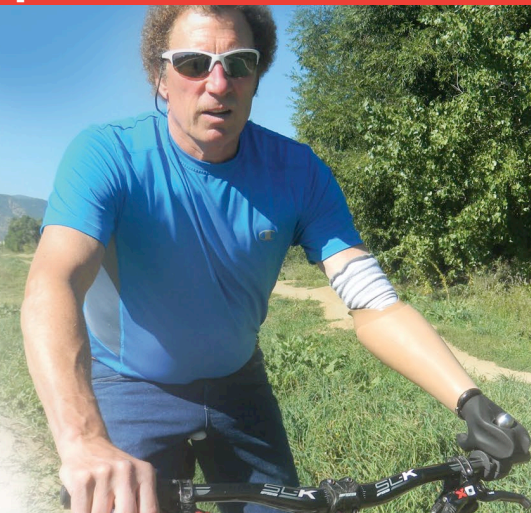
- Handlebars can be taped with various materials to change the friction and force required to engage and disengage the **Criteria**ms.
- All models fit right or left and equipped with 1/2 inch diameter threaded stainless steel coupler.
- Offset centerline duplicates normal palm grasping position for improved biomechanics.
- 70 Durometer Material
Children/adolescents and smaller proportioned adults and less aggressive riders will prefer the 70 models. Release loads approximately 15-20 pounds.*
- 85 Durometer Material
Average to larger adults or more aggressive riders. Requires more effort to engage and disengage from the handlebars. Release loads approximately 40-45 pounds.*

*Release loads were measured using the standard **Criterion** and 7/8 in. diameter smooth, bare metal handlebars without any tape covering. The load applied was a straight pulling force. No torque was applied. Tape, foam or fabric coverings will increase the amount of force and torque required to snap on or off the handlebars.

L-Code: L6704, Add-on L6620

SPECIFICATIONS

| Models: | Pivot | Pivot Short |
|----------------|-------------------|--------------------|
| Length: | 4.1 in. (10.4 cm) | 2.9 in. (7.4 cm)) |
| Width: | 2.5 in. (6.4 cm) | 2.4 in. (6.1 cm) |
| Weight: | 7.5 oz. (213 g) | 6 oz. (170 g) |
| Color: | Black/Satin | Black/Satin |



Mountain Master Mountain Bike TD

Product Code: MTNMASTER

Features:

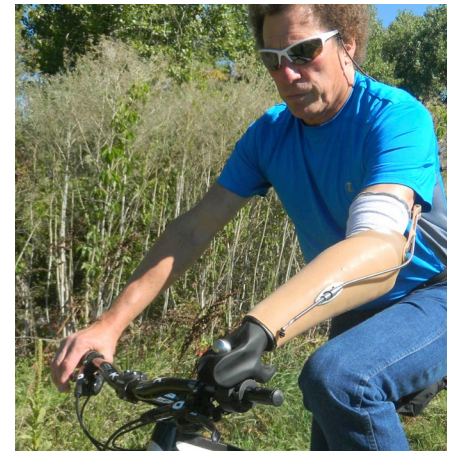
- Flexible, strong polyurethane body, shock absorbing design.
- Stainless steel ball-pedestal mount with machined aluminum mounting hub.
- Fits all standard 7/8 in. (~22 mm) diam. bars
- Snap-On and Lift-Off function.
- Rider controlled quick connect and release system (TD is not locked to handlebars).
- Excellent stability and secure control over the handlebars.

- Passive contoured features provide bike frame carrying capability.
- Equipped with a standard, threaded 1/2 inch diameter mounting connector.

L-Code: L6704

SPECIFICATIONS

| | |
|----------------|---|
| Length: | 4.2 in. (10.7 cm) |
| Width: | 2.4 in. (6.1 cm) |
| Height: | 3.3 in. (8.4 cm) |
| Weight: | 9.5 oz. (270 g) |
| Color: | Black (other colors maybe available custom for a surcharge) |



Ener-Joint

Product Code: ENER-JOINT
Elbow Design Module

- Elastomeric progressive resistance energy storing and release elbow with infinite locking positions, endoskeletal design.

Features

- 4 "flex module" models
- Compact and self-contained designed to be mounted to mimic the center of the anatomical elbow
- Energy absorbing, isolation module, polyurethane core isolates external shock forces under both flexion and extension
- Infinite variety of pre-positionable, lockable angular orientations. Consistent, non-adjustable, fixed flexible resistance.
- Rapid, reliable, bicycle style hub "quick release" locking, lever mechanism.
- Capable of performing activities including rugged mountain biking, snow mobiling, ATV riding, off road motorcycle riding, rowing, kayaking etc.
- Hi Tech "Android" Robotic appearance

- ENER~JOINT equipped with 1/2 inch diameter x 20 TPI fittings on both ends. Other custom thread sizes are possible. Please Inquire.

Applications:

- ENER~JOINT is designed for adult grade rugged activities and loads but is applicable to active young adults.

L Code:

New Technology, TBD *Recommend Miscellaneous code with language, "Elastomeric progressive resistance energy storing and release elbow with infinite locking positions, endoskeletal design."

SPECIFICATIONS

| | |
|------------------------------|---------------------------------|
| Models: | Soft, Medium Soft, Medium, Firm |
| Cylinder Diameter | 3.0 in. (7.6 cm) |
| Cylinder Width | 1.5 in. (3.8 cm) |
| Module Overall Length | 3.8 in. (9.7 cm) |
| Module Overall Width | 3.9 in. (9.9 cm) |
| Weight | 19 oz. (540 g) |
| Color | Stainless and black aluminum |



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ISHI Archery and Fishing TD

Product Codes: **ISHI, ISHI HD**

"**Isi**" was the name of the last known Native American Indian, living alone in the wilds of northern California, discovered in the early 1900's.

Archery Features:

- Compliant, strong, polyurethane "yoke" design that conforms to all types of bow handles.
- Bow "centers" or "nests" in the non-marring cradle of the **ISHI**.
- Adjustable ratchet strap and buckle system retains the bow without inducing torque.
- **ISHI** handles bows with weights to 45 lbs., **ISHI HD** to 70 lbs. plus.

Fishing Features:

- Compliant design with ratchet system adjusts to fishing rod handles
- Right or left hand reeling
- Flexible, strong polyurethane material "Ulnar flexes-deviates" similar to sound wrist.
- Use **ISHI** for lighter duty fresh water fishing. **ISHI HD** for heavier duty fresh water fishing and all salt water fishing.

Applications:

- **ISHI** operates either Right or Left
- **ISHI** for Archery; 5 -10 years old, Bows to 40lbs max. For Fishing; lighter fresh water fishing gear, for all ages.
- **ISHI HD** for Archery; Youth and adults, bows from 40 - 70lbs plus. For Fishing; medium to heavier fresh water fishing gear and all salt water fishing.

L-Code: L6704

SPECIFICATIONS

| | |
|-------------------|-------------------|
| Length: | 3.5 in. (9 cm) |
| Width: | 3.1 in. (7.9 cm) |
| Thickness: | 1.25 in. (3.1 cm) |
| Weight: | 6 oz. (170 g) |
| Color: | Stealth Black |



ISHI Trad



ISHI Compound



ISHI



ISHI Open

Product Code: **LAMPREY**

Features:

- Designed to fit most sporting firearms including bolt action, lever action and semi-automatic rifles and carbines, over and under, side by side, pump and semi-automatic style shotguns as well as military M-16's and their variations.
- Flexible polymer "yoke" conforms securely to various stock surfaces without marring the gun. Yoke snaps onto forearm (fore-end) of stock and can be pulled back tightening up for precise control. Yoke does not interfere with aiming or barrel's sight window.
- Lockable ball and socket allows for firing from a variety of positions and a pivoting platform provides for smooth gun rotation.
- Perfect for target and competitive bench shooting, "trap" and sporting clays, small

and big game hunting and upland game pursuits.

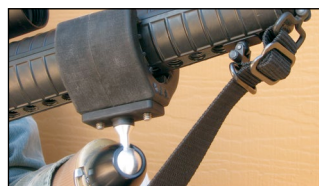
- Equipped with standard 1/2 in. diameter threaded prosthetic mounting stud.

L-Code: L6704

SPECIFICATIONS

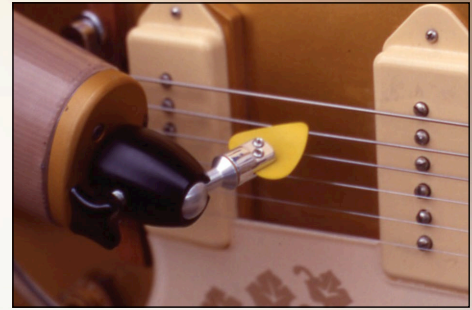
| | |
|-------------------|--|
| Materials: | Stainless steel, aluminum and polyurethane polymer construction. |
| Weight: | 15.5 oz. (440 g) |
| Color: | Black |

Lamprey Gun Turret





Direct attach locking liner mounting possible



Guitar Pick Adapter

Product Code: GUITAR PA
GUITAR PA CUSTOM

Features:

Picks not included.

- Applies to most all upper limb conditions.
- Passive (no cable required).
- TRS has developed a simple, highly adjustable, prosthetic, guitar pick adapter.

The **Guitar Pick Adapter** is constructed so as to be mounted close to the distal end of the prosthesis. Can also be mounted directly to a roll-on locking liner. Call for more info.

- The **Guitar Pick Adapter** will readily accept any pick. The pick is securely held in place with set screws. The **Adapter** has a lockable ball and socket component allowing for the

pick to be adjusted to any suitable playing position.

- 1/2 in. diameter threaded stud fits any USA made wrist units.

L-Code: L6704

SPECIFICATIONS

Weight: 3 oz. (85 g)

Color: Black and aluminum.

Violin Bow Adapter 2

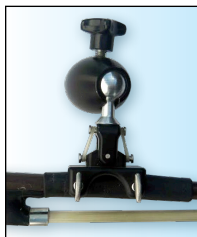
Product Code: VIOLIN 2

Application:

Violin bow not included.



- **Violin 2** more advanced model. Bow pivots easily duplicating natural wrist action and control.
- Most all upper limb conditions.
- 1/2 in. diameter threaded stud fits any USA made wrist units.
- Passive, no cable required.



- The TRS prosthetic **Violin Bow Adapter 2** 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.
- The bow is held firmly in place with set screws.

L-Code: L6704

SPECIFICATIONS

Weight: 4.5 oz. (128 g)

Color: Black only.



Product Code: DRUM SA

Application:

Drumsticks not included.

Drum Stick Adapter

- The **Drum Stick Adapter** provides a unique design, which allows the stick to not only pivot but pivot under an adjustable tension load. This feature enables the drummer to create spontaneous "drum rolls" and other drumming techniques.
- Drumstick and adapter require simple modification. TRS sends complete instructions.
- The drum stick is held firmly in place with a set screw.

- 1/2 in. diameter threaded stud fits any USA made wrist units.
- Passive. No cable required.

NOTE: This product cannot be returned for credit or reimbursement if modified.

L-Code: L6704

SPECIFICATIONS

Weight: Approximately 5 oz. (142 g)

Color: White plastic/black aluminum.

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Kahuna TD

Product Code: KAHUNA

Features:

- Surf-Swim TD
- Specially designed for ocean surfing
- Constructed of an unbreakable, high strength, polymer with a concave "palm" to allow for rigorous paddling and rail control but with flexibility for safety.

- Unique "heel" design at its base, that replicates human anatomy, provides a platform for "pushing up and off the board".
- Aggressive texture on all the surfaces enhances board control.
- Standard, stainless steel, threaded stud, mounting system.

L-Code: L6704

SPECIFICATIONS

| | |
|----------------|---------------------------------|
| Length: | 6.25 in. (15.9 cm) |
| Width: | 4.75 in. (12.1 cm) |
| Depth: | 2.5 in. (6.4 cm) |
| Weight: | 8.1 oz. (230 g) |
| Color: | Black, Sea Blue (SB), Teal (TL) |

Freestyle Swimming Device

Product Code: FSTSD 2

Features:

- Acceptable for competition swimming in high school.
- Folding wing design reduces resistance during stroke recovery but flares open to provide maximum resistance during power stroke.
- Rotates on prosthesis to create various swimming stroke options.
- Passive, no cable required.
- 1/2 in. diameter threaded stud fits any USA made wrist units.

Notes:

- The **Freestyle Swimming Device** can best be used with a custom shortened swimming prosthesis and a silicone sleeve suspension.

- Mount the **Freestyle Device** as proximally as the limb length allows.

- The device is sold in an adult size but can easily be modified to match smaller hand proportions.

L-Code: L6704

SPECIFICATIONS

| | |
|-------------------|-------------------|
| Length: | 6 in. (15 cm) |
| Width: | 5.5 in. (14 cm) |
| Thickness: | 0.63 in. (1.6 cm) |
| Weight: | 3.4 oz. (96 g) |
| Color: | White |

Materials: Polypropylene, aluminum and stainless steel hardware.



Swim Fin Kit

Product Code: SFK100

Features:

- The **Swim Fin Kit** provides almost all of the advantages of the **Freestyle Swim Device** without the need for a prosthesis.
- The kit comes complete with fabrication layouts and directions. Estimated fabrication time is two hours. TRS recommends fabrication by a prosthetic technician.

Applications:

- Trans-radial
- Adolescent to adult.

L-Code: L6704

Note: Product uses Latex®

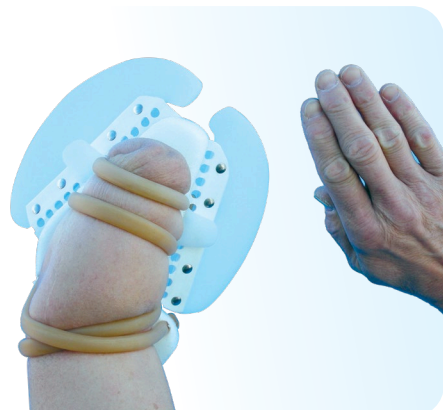
SPECIFICATIONS

Length, width and weight will vary depending upon patient.

Thickness: 0.7 in. (1.8 cm)

Color: White

Materials: Polyethylene, foam sheet, latextubing, stainless hardware.





Dragon TD

Product Code: **DRAGON 60**

Features:

- Specifically designed for martial arts, wrestling, sparring, grappling, contact sports and floor exercise type activities.
- A soft to medium hardness shock absorbing, flexible polymer.
- Excels in punching, chopping and grappling.
- Uniquely shaped surfaces duplicate fist-like anatomy and provide high traction.
- Cylindrical, shock absorbing cavity and all-polymer construction.

- Incredible punching power and cushioned protection for the arm.

L-Code: **L6704**

SPECIFICATIONS

Length: 3.7 in. (9.4 cm)

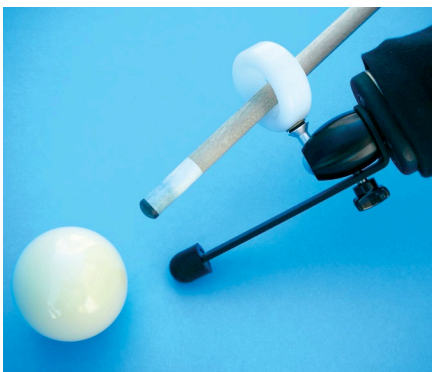
Width: 2.9 in. 7.4 cm

Height: 4.3 in. (11 cm)

Weight: 10.5 oz. (298 g)

Color: Stealth Black

Materials: Polyurethane and stainless steel threaded mounting stud.



Product Code: **HUSTLR**

Features:

- **The Hustler TD** is a versatile, lightweight prosthetic aid for playing pool, billiards, snooker and similar table games.
- 1/2 in. diameter threaded stud fits any USA made wrist units.
- Easily adjusted for all shot angles.
- Rigid, rubber tipped monopod creates a non-slip bridge, while the swivel ring guides the stick almost friction free.

- Adolescent to adult.

L-Code: **L6704**

SPECIFICATIONS

Length: 5.25 in. (13 cm)

Weight: 4.5 oz. (128 g)

Color: Aluminum/black/ white

Materials: Nylon, neoprene, aluminum, steel.



Amp-U-Pod

Product Code: **DPAUP0**

Applications:

- Fits all cameras with standard 1/4"-20 hole fitting.
- Supports the camera on a lockable tripod mount, which facilitates photographing at a variety of angles and aids in changing film without the camera having to leave the security of the prosthesis.

- 1/2 in. diameter threaded stud fits any USA made wrist units.

L-CODE: **L6704**

SPECIFICATIONS

Length: 6 in. (15 cm)

Weight: 2.5 oz. (71 g)

Color: Non-glare black/ aluminum.

Rocky Mountain High Skip Ropes

Product Code:

Skip Rope: **JUMPROPE**
Skip Rope adapter: **JRADAPTOR**

- Enjoy the aerobic and health benefits of rope jumping.
- **Rocky Mountain High Skip Ropes** are designed especially for use with a prosthesis. These are the same type of light weight, high performance skip ropes used around the USA by rope skipping exhibition teams.
- TRS includes a specially designed skip rope adapter that is angled precisely to optimize rope skipping with the prosthesis. The **Skip Rope** handle securely and safely force fits onto the adapter. The adapter will screw into

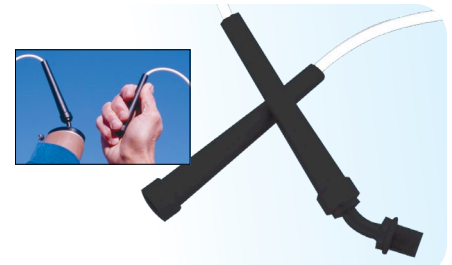
a standard prosthetic wrist or disconnect style wrist adapter.

- The rope length is easily adjustable and can be shortened and customized to each individual's body size and jumping style.

Application:

- Young adults age eight and older through adult.
- Right or left absence.
- Bi-lateral custom sets can be made. (Inquire).

L-Code: **L6704**



SPECIFICATIONS

Length: 5.25 in. (13 cm)

Weight: 4.5 oz. (128 g)

Color: Aluminum/black/ white

Materials: Nylon, neoprene, aluminum, steel.

Prosthetics Research ■ Design ■ Manufacturing ■ Consulting

3090 Sterling Circle, Studio A, Boulder, Colorado USA 80301-2341
Phone: 303.444.4720 Toll Free: 800.279.1865 Fax: 303.444.5372 ■ www.trsprosthetics.com

Fillauer
TRS Inc.

Sports & Recreation

Product Code: RAPTOR

Features

- A solid titanium plate support body and stainless steel wrist adapter system
- Friction adjustable “rocking” action “Hook” adapts to various approach angles
- 3 replaceable, “recyclable” tips (2 Polyurethane (85 & 95) and one “shapeable” brass)
- Cloaked with easily replaceable, high traction “O” ring sheathing
- Universal handedness

L Code: L6704

The **Raptor Sky Hook** is the first commercially available prosthetic terminal device for both indoor and outdoor rock climbing recreations. The Raptor was designed with input and field testing by Jon Sedor, a nationally recognized, one-handed climber. Slim and strong with multiple functional features including: Extra tips may be ordered separately in quantity. Tips may be recyclable. If structural base materials in the tips are not damaged credit may be issued for tips returned, at TRS discretion.

WARNING! Technical rock and gym climbing are very dangerous activities that can result in severe injury or death. Always climb with protection. TRS accepts NO LIABILITY for the use of the RAPTOR SKY HOOK. Using the Raptor may result in severe injury or death!

Raptor Sky Hook Rock and Gym Climbing TD

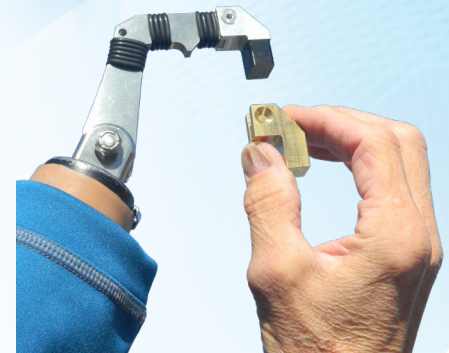


SPECIFICATIONS

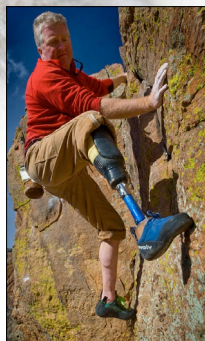
| | |
|-------------------|-------------------|
| Length: | 3.4 in. (8.6 cm) |
| Width: | 3.7 in. (9.4 cm) |
| Thickness: | .63 in. (1.6 cm) |
| Height:** | 4.5 in. (11.4 cm) |
| Weight: | 6 oz. (170 g) |

Wrist Units:

- TRS® Omega Large Oval & Round



Craig DeMartino:
Paradox Sports Team



Malcolm Daly
Paradox Sports Team



Eldorado Z-Axis Climbing Foot

Product Codes: ELDO-Z

Features:

- Revolutionary, compact design (no right or left).
- Designed with the invaluable input of Malcolm Daly (pictured left), Paradox Sports® and Evolv Sports®.
- Superior control, loading, leverage and proprioception.
- High strength keel for stability and control.
- Compliant polymer foot matrix provides “feel” under load.
- Complete with rugged, custom Evolv Sports® TRAX-XT5 sticky, climbing shoe rubber.
- **Eldorado Z-Axis** comes complete with titanium pyramid adapter and appropriate hardware pre-installed to manufacturer’s specifications. Simply attach to any lower extremity, endo-skeletal prosthesis designed to receive a standard pyramid adapter.

Construction / Materials:

Foot: High performance, light-weight core and reinforced keel system encased in matrix of high strength polymers. Titanium pyramid adapter installed with hardware to mfg. specifications. Foot pre-installed in shoe.

Shoe: Tough, high strength, abrasion resistant materials. High traction “sticky rubber” sole, toe and heel, typical of high performance rock climbing footwear.

Application: Unilateral and bilateral trans-tibial and certain transfemoral climbers. Suggested climber weight: 300 pounds (136 kg) (max.).

L-Code: TBD

SPECIFICATIONS

| | |
|------------------|--------------------|
| Length: | 7.25 in. (18.4 cm) |
| Width: | 2.8 in. (7.1 cm) |
| Height:* | 3.75 in. (9.5 cm) |
| Height:** | 4.5 in. (11.4 cm) |
| Weight: | 25 oz. (709 g) |

Foot Color: TRS tan

Shoe Color: Black / Neon Yellow

Shoe Style: Evolv® TRAX-XT5 (Laced), High traction toe, sole and heel.

* w/o Pyramid Adapter

** w/ Pyramid Adapter



Omega Friction-Disconnect Wrist Technology

Product Code: *OMEGA R OMEGA L, OMEGA RB, OMEGA LB, OMEGA M, OMEGA MB*

Features

- Superior body powered wrist technology, designed by prosthetic users for prosthetic users.
- Totally machined from surgical stainless steel and aircraft aluminum
- "Tool-less" adjustable, rotational friction control 12 locking positions
- Lock-In, Lock-Out and Lock-Open disconnect features
- Easy to insert, precision-fit, OMEGA disconnect insert
- Simple, reliable, OMEGA disconnect, insert capture technology
- Rock solid "fit" and significantly stronger than all other competition
- Standard laminating ring fabrication

L Code:

L6615 (Wrist)

L6616 (Inserts)

SPECIFICATIONS

| | Round Large | | Oval Large | | Oval Medium | |
|-----------------------------------|--------------------|----------|------------------|----------|------------------|----------|
| Product Code | OMEGA R | OMEGA RB | OMEGA L | OMEGA LB | OMEGA M | OMEGA MB |
| Color: | Aluminum Satin | Black | Aluminum Satin | Black | Aluminum Satin | Black |
| Major OD: | 2.04 in. (5.18 cm) | | 2.4 in. (6 cm) | | 2.0 in. (5 cm) | |
| Minor OD: | N/A | | 1.7 in. (4.5 cm) | | 1.5 in. (3.8 cm) | |
| Total Height with Laminating Ring | 1.03 in. (2.62 cm) | | 1.0 in. (2.5 cm) | | 1.0 in. (2.5 cm) | |
| Height Face Plate (Only): | .32 in. (.8 cm) | | .32 in. (.8 cm) | | .32 in. (.8 cm) | |
| Weight: | 3.6 oz, 103.1 g | | 3.9 oz, 111.2 g | | 3.2 oz, 89.4 g | |



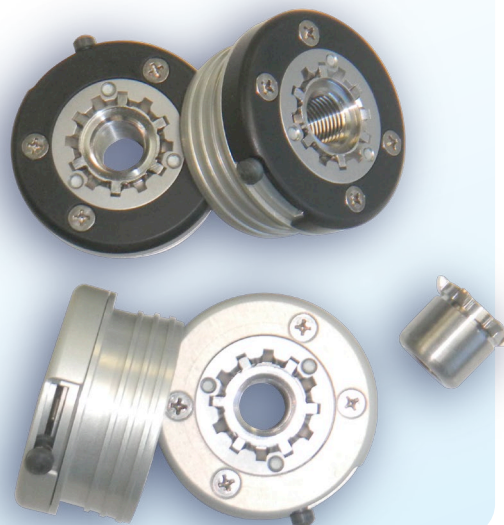
OM005
For Use With
Split Hooks



Black Available (Round & Oval)

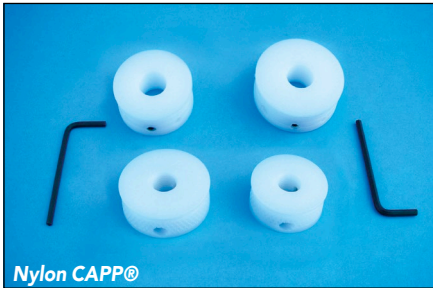


OM003 Omega Disconnect Inserts



Wrists

TRS Nylon



Disconnect



FM

Friction Disconnect



Wedgegrip



Flex Wrists



Disconnect adapters for Fillauer®-HOSMER® Wrists



Wrist Components

TRS Nylon Wrists

| MODEL: | STYLE | SIZE | PRODUCT CODE | SPECIFICATIONS |
|--------|-------|------------|----------------|-------------------------|
| Infant | Round | Very Small | INFANTWRIST | 1.25 in. D. (3.2 cm D.) |
| Child | Round | Small | TRS CHILDWRIST | 1.5 in. D. (3.8 cm D.) |

Fillauer®-Hosmer® Nylon Capp®

| MODEL: | STYLE | SIZE | PRODUCT CODE | SPECIFICATIONS |
|--------|-------|--------|--------------|-------------------------|
| CAPP® | Round | Small | 55108 | 1.5 in. D. (3.8 cm D.) |
| | Round | Medium | 55109 | 1.75 in. D. (4.4 cm D.) |

Fillauer®-Hosmer® Wrists

| MODEL: | STYLE | SIZE | PRODUCT CODE | SPECIFICATIONS |
|---------------------|--------|--------|--------------|--|
| Wedgegrip | Round | Large | 61897 | 2 in. D. (5 cm D.) |
| | Round | Medium | 62351 | 1.75 in. D. (4.4 cm D.) |
| | Oval | Large | 61970 | 2.25 in. x 1.6 in. (5.7 cm x 4.1 cm) |
| | Oval | Medium | 62354 | 2 in. x 1.55 in. (5.1 cm x 4 cm) |
| | | | | |
| Disconnect | Round | Large | 61862 | 2 in. D. (5 cm D.) |
| | Round | Medium | 62342 | 1.75 in. D. (4.4 cm D.) |
| | Oval | Large | 61922 | 2.25 in. x 1.6 in. (5.7 cm x 4.1 cm) |
| | Oval | Medium | 62343 | 2 in. x 1.55 in. (5.1 cm x 4 cm) |
| | | | | |
| TRS Improved Insert | | | QDA6H | |
| FM Disconnect | Round | Large | 58297 | 2 in. D. (5 cm D.) |
| | Insert | | 51052 | |
| Friction/Disconnect | Round | Large | 58152 | 2 in. D. (5 cm D.) |
| | Round | Medium | 58151 | 1.75 in. D. (4.4 cm D.) |
| | Oval | Large | 58150 | 2.25 in. x 1.63 in. (5.7 cm x 4.1 cm D.) |
| | Insert | | 58153 | |
| | | | | |
| Flexion | Round | Large | 51100 | 2 in. D. (5 cm D.) |
| | Round | Medium | 51084 | 1.75 in. D. (4.4 cm D.) |

ELF-Straps



ELbow Flexion Cross Bar and Cable Control Strap

Product Codes:

ELFSTRAPTAN / ELFSTRAPBLACK

The ELF Cross Bar and Cable Control Strap eliminates forever your need to fabricate cross bar straps.

These straps were developed with over a year of rigorous field testing. The ELF Strap is designed to enhance cable excursion

control by providing a platform and cable housing, "tunnel" guide to maximize cable excursion around the elbow. Now elbow flexion can be added to the arsenal of gleno-humeral flexion and bi-lateral scapular abduction movements to help generate the cable forces needed to operate body powered prosthetic devices like GRIP Prehensors and V/O Split Hooks.

Features:

- Waterproof polyurethane material retains flexibility and strength for better cable performance and efficiency.
- Cable tunnel guide enhances cable excursion around the elbow dramatically

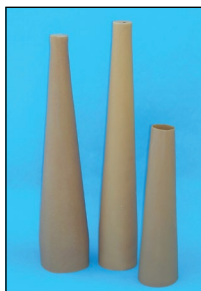
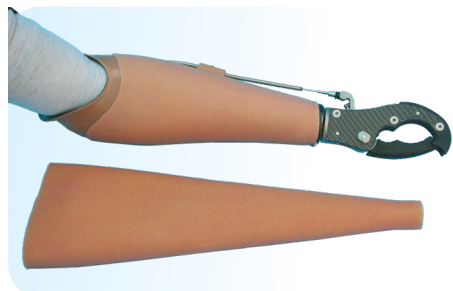
improving performance and increasing operational efficiency.

- Capable of being used with both Heavy Duty and Standard size cable housing. Special tubing is enclosed as an accessory that is used to increase the O.D. of Standard Size Cross bars so that they fit the ELF system.
- Unbreakable. ELF STRAPS survived over ONE MILLION cycles of "ninety degree flexion/extension testing.
- Extra long to fit prosthesis with lower trim lines.
- Easily modified for length and mounting. Material cuts, drills and finishes professionally.
- Accessory kit includes mounting hardware and complete Installation Instructions.

SPECIFICATIONS

| | |
|--------------------------------------|-----------------------------|
| Length: | 6.5 in. (16.5 cm) |
| Width: | .75 in. (1.9 cm) |
| Max. Width: | .96 in. (2.4cm) |
| Thickness: | .125 in. (.32 cm) |
| Max. Thickness (@ Cross Bar): | .50 in. (1.3 cm) |
| Colors: | TRS Tan & TRS Stealth Black |
| Weight: | Under .5 oz. (14g) |

Arm Skinz



***ARM SKINZ are not designed for manual labor or rough, abrasive hobby environments. They are 100% waterproof.**

Features:

- Silicone material throughout in healthy, complimentary, skin tone, tan color.
- Stain resistant and waterproof. Easily cleaned.
- Custom colors available by special order at extra cost.
- Extra long tapered cones in two models fit a wide variety of prostheses.
- Excellent elasticity.
- Install easily similar to donning regular cosmetic glove technology.

SPECIFICATIONS

Length: 17 in. (43 cm)

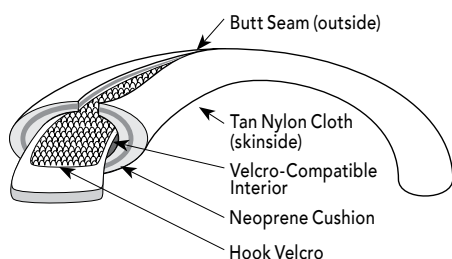
Thickness: Approximately .060 in. (.15 cm)

Elongated, cone configuration in two different tapers/models. See SIZING CHARTS (on website) to determine the best fit. Sized to fit most arm prostheses and smaller diameter (pediatric leg prostheses)

Adult and pediatric models.

Product Codes: ARM SKINZ/ADULT, ARM SKINZ/PEDIATRIC

TRS ARM SKINZ were developed especially to provide an improved cosmetic covering and surface texture alternative to hard, glossy prostheses for body powered and passive systems.



Product Code: AXL150, AXLBULK

Neo-Axilla Loop Padding

Features:

- Lightweight, never bulky.
- Washable.
- Soft tan color, nylon outside (skinside).
- Velcro compatible inside surface attaches to hook Velcro stitched to web along axilla area. Wrap around, peel off design.
- Won't chafe. Never sticky. Won't turn yellow.
- The best axilla loop material available.

SPECIFICATIONS

| AXL150 | AXLBULK |
|--|------------|
| 2-5/16 in wide | 21 in wide |
| 12 ft roll | 10 ft roll |
| ■ AXL150 designed to wrap around 1 in. wide web. | |
| ■ AXLBULK. Customer can cut and size to meet their specific padding applications for either prosthetics or orthotics. | |

Accessories

Cutaneous ANCHOR Technology by Single Handed Solutions

Product Codes: **T-R ANCHOR,**
T-H ANCHOR

Cutaneous Anchor Technology was invented by Debi Latour, a career Registered Occupational Therapist specializing in pediatric prosthetic rehabilitation. Debi has a congenital trans-radial deficiency and has worn a prosthesis most all of her life.

The innovative **ANCHOR** system uses a special adhesive tape and re-useable mounting plate anchors to control a body powered cable and TD. The system eliminates the contra-lateral harness entirely for improved comfort and improved appearance.

The **ANCHOR** provides an excellent alternative to traditional harness systems. Users enjoy the additionally flexibility and the absence of web harnesses that can interfere with clothing including sleeves, bra suspension straps, etc. Lower cut and sleeveless clothing can now be more of an option for the user.

Patient's typically resisting harnesses can be more accepting of this prosthetic actuation system. The **ANCHOR** is wearable and functional for multiple days at a time without removal. The technology is also useful to anchor linear transducers or in tandem hybrid

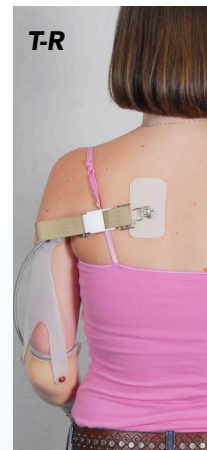
technology (external power-coupled with body-powered).

Features:

- Trans-Radial (T-R) and Trans-Humeral (T-H) Kit systems
- Harness-less operation of body-powered prostheses
- Multiple day wearing performance
- Ipsi-Lateral cable/TD control
- Skin friendly, high traction, adhesive mounting technology
- Complete instructions and guidance
- Special technical support and product application guidance*

L Codes: L6655, L6675, L6676, L7499

*Contact Debi Latour at: LatourAnchor@gmail.com



Anchor Companion Strap

Product Code: **C-STRAP W (for white webbing)**
C-STRAP B (for black webbing)

Features:

- 1 inch wide Dacron webbing, approximately 20 inches long
- Includes TRS Rapid Adjust Buckle (black)
- Interfaces with Anchor using Fillauer nylon suspension clip
- White or Black webbing (only black buckle)



PRO-Poly Web (Tape) Harness Material

Product Code: **AWEB (Specify Color)**

Features:

- **Pro-Poly Web Harness material** is softer, smoother in texture and more comfortable to wear than standard dacron web tape.



- **Pro-Poly Web** is also slightly thicker than conventional Dacron web, so it functions better with **TRS Rapid Adjust Buckles**.
- Conventional harness construction is applicable.
- **Pro-Poly Web** can be laundered regularly without damage.

SPECIFICATIONS

1 in. or 3/4 in. widths available.

Length: 50 ft. roll.

Colors: 1 in.: White, tan, royal blue, black.
3/4 in.: White and black.

Additional colors, minimum order 50 yds. Inquire as to availability

Rapid Adjust Buckles

Product Code:

ARAB 1K, ARAB 34K

Features:

- Low profile, strong.
- Buckle uses clamp action for securing web.
- Locks positively into place anywhere on web.
- One hand operation.
- Replaces any three or four bar buckles and most "belt" or "latch" type buckles used in orthotic braces.
- Excellent for upper extremity prosthetic harnesses to rapidly adjust cable excursion.

Models: 1" blk, 3/4" blk



BAHA & BAHA 9 Bio-mechanically Aligned Harness Anchor



Product Code: *BAHA, BAH BLACK, BAH PEDI, BAH 9*

Features:

- The BAHA and BAH Pediatric harness anchors improve the biomechanics by optimizing the harness axilla angle and creating a more efficient cable control pathway. This technology replaces the Figure #8 stainless steel ring(s).
- The BAH 9 replaces the stainless, NorthWestern Ring used on a Figure #9 harness. Additionally, it incorporates a 4-bar buckle style, web harness connection directly into the technology, eliminating another metallic component.
- The BAHA, BAH Pediatric and BAH 9 are advancements in body powered harness design and technology..... 21st Century Body Power!
- High Strength and Lightweight.
- Flexible and comfortable... conforms to the spine.
- Modifiable to accommodate most axilla harness angles.
- All models function either Right or Left

Applications:

- **BAHA Pediatric** Children and young adults
- **BAHA and BAH 9** Teenagers - Adults
- **BAHA and BAH** Pediatric Figure#8 harness technology
- **BAH 9** Figure #9 harness technology

L-Code:

- Sub-component, **L6675** Single control harness, **L6676** Dual control harness.
- The **BAHA**, **BAH** Pediatric and **BAH 9** were conceived and designed by Bob Radocy and Randy Riley. The **BAHA** is an evolution of the VADR (Vertically Arrayed Dual Ring Harness) as described by Randy Alley, CP., FAAOP

SPECIFICATIONS

| MODELS: | ADULT | PEDIATRIAC | BAHA 9 |
|-------------------|--------------------|--------------------|--------------------|
| Length: | 3.9 in. (9.9 cm) | 2.9 in. (7.4 cm) | 2.9 in. (7.3 cm) |
| Width: | 2.7 in. (6.9 cm) | 2.0 in. (5.0 cm) | 2.4 in. (6.0 cm) |
| Thickness: | 0.125 in. (0.3 cm) | 0.125 in. (0.3 cm) | 0.125 in. (0.3 cm) |
| Weight: | 1/2 oz. (14 g) | 1/3 oz. (9.5 g) | 1/2 oz. (14 g) |
| Color: | TRS Tan or Black | TRS Tan | Black |



Binary Swivels

Product Codes:
BINARY316STD **BINARY316HD**
BINARY932STD **BINARY932HD**

Models:
3/16 STANDARD **3/16 HEAVY DUTY**
9/32 STANDARD **9/32 HEAVY DUTY**

Features:

- **TRS BINARY SWIVELS** have tested 50% stronger than conventional Triple Swivels. They incorporate stronger stainless steel materials with a simplified, stronger design that will outlast conventional systems.

- **BINARY SWIVELS** have an extra long ferrule for receiving prosthetic cable allowing "Double Swage" capability for greater longevity and less cable failure at the swage.
- **BINARY SWIVELS** are available with both 3/16 inch diameter terminal balls and 9/32 inch diameter terminal balls for both STANDARD 1/16 inch diameter cable and 3/32 inch diameter HEAVY DUTY cable.
- TRS highly recommends that **TRS PYTHON Standard** and **TRS PYTHON Heavy Duty** cable be used in all prosthetic systems to ensure the best performance and greatest longevity.

Cable Housing Ferrules

Product Code: **CH FERRULE**

Features:

- Press fit into heavy duty housing traps teflon liner inside housing eliminates need to "flare" liner.
- Lubricant impregnated plastic. Friction free, quiet operation.



Prosthetics Research ■ Design ■ Manufacturing ■ Consulting

3090 Sterling Circle, Studio A, Boulder, Colorado USA 80301-2341
 Phone: 303.444.4720 Toll Free: 800.279.1865 Fax: 303.444.5372 ■ www.trsprosthetics.com

Fillauer
 TRS Inc.

Accessories

PYTHON, High Performance, Custom, Stainless Aircraft Cable

Stronger with superior abrasion resistance. The new prosthetic standard! (**Python Cables** fits all standard and heavy duty cable hardware.)

Product code: PYTHONSTD, PYTHONHVY

Features: PYTHON STANDARD

- 1/16 in. diameter (rotary swaged)
- Superior 1 x 19 cable construction
- 4 x more resistant to abrasion breakage
- Low coefficient of friction, longer life, less fraying and breakage
- Fits all conventional hardware
- 25 ft. long coils and competitively priced

Features: PYTHON HEAVY DUTY

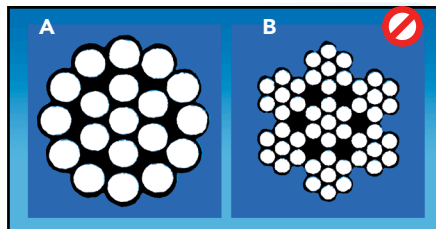
- 3/32 in. diameter (rotary swaged)
- Superior 1 x 19 cable construction
- 4 x more resistant to abrasion breakage
- Low coefficient of friction, longer life, less fraying and breakage
- Fits all conventional hardware
- 25 ft. long coils and competitively priced

A NEW PYTHON:

High performance, stainless aircraft cable. 1x19 construction. 19 high strength wires.

B OLD CONVENTIONAL CABLE:

7x7 construction. 49 thin wires.



Python Standard

Python Heavy Duty

Heavy Duty Cable Housing

Product Code: ACCHT25

Features:

- Heavy duty stainless steel cable housing.
- Accepts **TRS Python Heavy Duty Cable** (3/32 in. dia.) or equivalent. Accepts standard diameter prosthetic cable (1/16 in. dia.) with a **TRS Teflon Liner**. Accepts new **Cable Housing Ferrules**.
- **Heavy Duty Housing** is constructed to be used with any manufacturer's standard heavy duty fittings; cable housing retainers, cross bars, etc.
- Available in 25 ft. coils.

Superior Grade Teflon Cable Housing Liner

Product Code: ACCHLC

Features:

- TRS custom formulation teflon liner, slightly stiffer, longer lasting.
- 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. See new **TRS CH Ferrules**.
- Available in 25 ft. coils.

In-Line Hook To Grip Adapter

Product Code: H-GADAP

- Connects 9/32 in. diameter ball triple swivels (Fillauer®-Hosmer®) to **TRS Grip Prehensors**, easily and reliably.
- Adapter is stainless steel, 1 in. long.
- Supplied with a grommet.



Adept Cable Adapters

Product Code: PTA010T

SPECIFICATIONS

- One piece, stainless steel, in-line cable fittings with 3/16 in. diameter ball, which accept standard 1/16 in. dia. cable only.
- Designed exclusively for use with all **ADEPT Prehensors and LiteTouch Hands**.

Spectra® Prosthetic Cable and Fittings

Spectra® is a registered trademark of Allied-Signal, Inc.

Spectra® Prosthetic Cable

Redesigned in 2007. Stronger and tighter weave.

These are custom "tie-on" fittings designed to ensure easy, positive attachment of **Spectra®** cable. **Spectra®** fittings are re-useable. Instructions are included.

Product Code: SPECTRA 400 ULTRA

Features:

- **Spectra® cable** is a high performance, synthetic, braided cable material with a very low coefficient of friction. Composed of ultra high molecular weight polyethylene fibers, Spectra® is quiet and strong.
- **400 ULTRA Spectra®** is coated. 30% more abrasion resistant.
- **Spectra®** is an excellent alternative to other "fiber" cables such as dacron and stainless steel cable in situations where stainless has not performed well.
- **Spectra®** must be installed with a teflon or co-polymer plastic cable housing liner.
- **Spectra®** requires custom tie-on fittings and cannot be swaged.

APPLICATIONS:

- Trans-radial and trans-humeral limb absence.
- Children, adolescents and adults.

SPECIFICATIONS

Tensile strength:

Spectra 400 ULTRA: Approximately 400 lbs.

Color:

400 ULTRA: Black

Spectra® Cable Hanger

SPECIFICATIONS

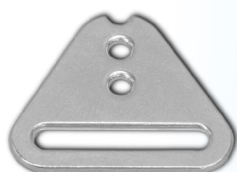
Product Code: ASPCH1M ASPCH2

Web width: ¾ or 1 in. ½ in.

Thickness: 0.06 in. thick stainless steel

Width: 1.125 in. wide 0.75 in. wide

- ASPCH1M is tight on some dacron webbing. TRS suggests PolyPro webbing.



ASPCH1M



ASPCH2

Spectra Ball Fittings

SPECIFICATIONS

- Stainless steel, 1 in. long.

Product Code: ASPCB2 ASPCB3 ASPCB1
Models: 9/32" D. BALL 9/32" D. SOLO BALL 3/16" D. BALL
 (Fillauer®- Hosmer® Dorrance® products) (TRS product Application)

ASPCB2



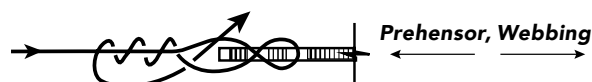
ASPCB3



ASPCB1



Spectra® Cable Adapter and Hanger Fitting Instructions



SPECTRA® INSTALLATION AND ATTACHMENT HINTS

Spectra® is a super tough, ultra high molecular weight polyethylene fiber. It is very slippery and does not cut easily. Use a razor blade. Apply "Super Glue" to a small area of the **Spectra®** then stretch it. Allow the glue to "set/dry" then cut it. This will provide a cleaner cut. Angle cutting the **Spectra®** will provide a better leading edge.

Spectra® Must be used in a teflon or plastic liner.

Pull the **Spectra®** into and through a teflon or plastic liner using a vacuum pump's suction or by using a thin piece of piano wire looped over and glued to **Spectra®**. The vacuum pump technique works the best however.

Weave **Spectra®** and tie onto the special **Spectra®** fittings according to the diagrams illustrated above. **Spectra®** will take approximately a 1/2 inch knot set, i.e., it will provide you with a 1/2 inch more cable length as you set or tighten the knot. Take this into consideration if the length is critical. add a drop of super glue to the knot once it is tightened as this technique will help prevent the knot from getting loose trim off excess.

Accessories

Binary Cable Hanger System

Product Codes:

Total System Std. Cable: **BCH1000**

Total System Hvy Dty. Cable: **BCH2000**

Binary Hanger: **BCH01**

Binary Cable Connectors:

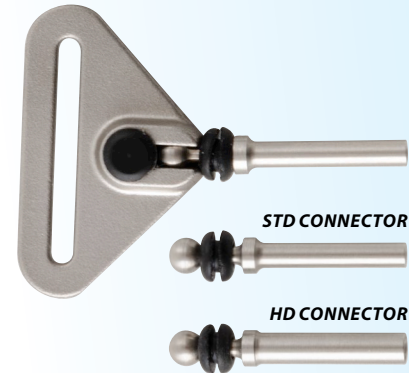
Standard Cable: **BCH02**

Hvy. Duty Cable: **BCH03**

Lock Assembly: **BCH04**

Feature:

- Unique two piece system with "Re-Useable" Binary Hanger
- Double swage capable Binary Cable Connector for both Std & Hvy Duty cables
- Stronger, more versatile and more economical than any other cable "hanger" system available



SPECIFICATIONS

| | System | Binary Hanger | Binary Cable Connector |
|--------------------------|------------------|------------------|------------------------|
| Length: | 1.8 in. (4.6 cm) | .86 in. (2.2 cm) | 1.2 in. (3 cm) |
| Width: | 1.4 in. (3.6 cm) | 1.4 in. (3.6 cm) | .188 in. (.48 cm) |
| Thickness (Max.): | .22 in. (.56 cm) | .22 in. (.56 cm) | .188 in. (.48 cm) |
| Weight: | 9.4 g | 7.7 g | 1.7 g |

Prosthesis & Procuff Terminal Device Adapters

Product Codes:

Prosthesis TD Adapter Large

PDTA1000

Long Disconnect Insert

PDTA101

Prosthesis TD Adapter Small

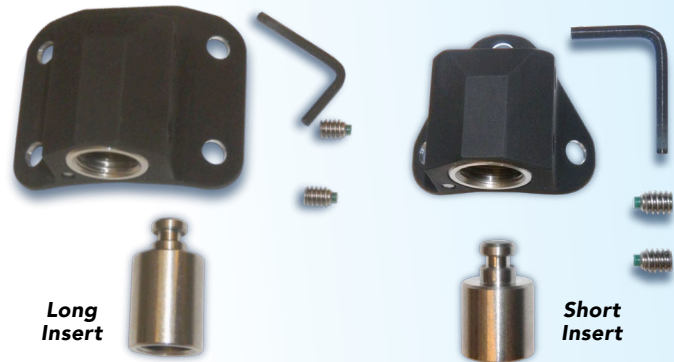
PDTA2000

Short Disconnect Insert

PDTA201

Feature:

- High strength, aircraft aluminum TD Adapters and stainless steel insert (included)
- Rapid disconnect system using dual set screws to retain insert and adjust frictional rotation
- "On Board" magnetic-stored, Allen wrench for convenience
- Adaptable to Texas Assistive Device® (TAD) "Fittings"
- Order EXTRA inserts for multiple TDs



SPECIFICATIONS

| | Length | Width | ~Arm Diameter |
|------------------------------------|-------------------|------------------|------------------|
| Prosthesis TD Adapter Large | 1.5 in. (3.8 cm) | 1.9 in. (4.8 cm) | 3.0 in. (7.6 cm) |
| Prosthesis TD Adapter Small | 1.4 in. (3.6 cm) | 1.6 in. (4 cm) | 2.0 in. (5 cm) |
| Long Disconnect Adapter | 1.13 in. (2.9 cm) | .63 in. (1.6 cm) | N/A |
| Short Disconnect Adapter | .94 in. (2.4 cm) | .63 in. (1.6 cm) | N/A |

Prosthesis Distal Disconnect Wrist System

Product Codes:

System: **PDD1000**

Long Disconnect Insert: **PDTA101**

Feature:

- High Strength, .125 inch thick, 7075 T6 Frame (Ready to drill and mount to prosthesis)

- Allows for more proximal TD mounting
- Integral, compact, TD disconnect wrist system
- Creates "In-Line" TD mounting design for more natural control of activity specific accessories
- Stainless and anodized aluminum materials

SPECIFICATIONS

| | | |
|--------------------------------------|-------------------------------|---------------------------------|
| Length: | 5.56 in. (14.1 cm) | |
| Width (Tapered design): | ~2.5 in. (6.4 cm) Distal end | ~3.0 in. (7.6 cm) Proximal end |
| Circumference: | ~ 7.85 in. (20 cm) Distal end | ~ 9.42 in. (24 cm) Proximal end |
| Thickness (diameter of wrist) | 1.4 in. (2.9 cm) Distal end | |



TDs not included with Pro Cuff



Pro Cuff "Prosthesis"

- Partial Hand
- Wrist Disarticulate
- Weak or Injured Hands
- Paralyzed Hands

Product Codes: **PRO CUFF RIGHT,**
PRO CUFF LEFT

Feature:

- Great for activities like Golf, Kayaking, Swimming, Light weight conditioning, etc.
- Allows for the TD to be positioned in an anatomically correct location adding little if any length to the arm.
- Constructed of low temperature (130-150°), easily formable PLASTIC FOAM LAMINATES.
- Provides a basic "platform" for the prosthetist to reinforce and build upon to meet users' needs.
- Thermo-moldable carbon sheet material included.

- BOA® high performance cable lacing tension and closure technology is "Built-In".
- One-size fits most users... very adjustable... enlarges easily for entry and exit.
- Stainless steel TD disconnect, bracket system with multiple mounting options*.
- Utilizes most TRS TDs with minimal modification.
- Easily modified to be compatible with Texas Assistive Devices® TDs.

Applications:

The **PRO CUFF** is a perfect "Activity Specific" solution for persons with temporary or permanent hand injury, paralysis, partial hand absence or wrist disarticulation absence. Lack of gripping dexterity, capability or force can be augmented by using the **PRO CUFF** equipped with the appropriate prosthetic terminal device.

L-Code: Research **L3906.**

*Heavy duty applications will require the addition of internal reinforcing to secure brack.

SPECIFICATIONS

| | |
|--|---|
| Length: | 5.0 in. (12.7 cm) |
| Weight with Stainless Bracket: | 6.6 oz. (187 g) |
| Weight without Bracket: | 3.6 oz. (102 g) |
| DISTAL END Internal Circumference (Adjustable range): | ~5.75 in. - ~8.0 in. (~14.6 cm. - ~20.3 cm) |
| PROXIMAL END Internal Circumference (Adjustable Range): | ~8.0 in. - ~10.in. (~20.3 cm.- ~25.4 cm) |

ProCuff Distal Mount

Product Codes:

PRO CUFF DM

- Designed for wrist disarticulate and specific partial hand absences
- Includes adjustable position-length Prosthesis Distal Disconnect Wrist System (PDD1000)
- Includes Long Disconnect Insert (PDTA101)

Feature:

- Professionally constructed prosthesis ready to fit and finish
- Distal "In-Line" terminal device mounting system for improved TD control and balance
- Distal Disconnect Wrist System has in excess of two inches of length positioning adjustment to accommodate various partial hand and wrist disarticulate configurations. Prosthetist simply drills and rivets the bracket system into its final configuration based upon user's limb morphology. Four

Chicago style threaded rivets included for securing bracket onto prosthesis.

- Constructed of re-formable, low temperature plastic-foam laminates
- "AFO" "lift off" tongue, limb capture and retention type design. Cuff completely opens up for easy donning and doffing, using dual, velcro closure systems.
- "Built in" BOA cable closure and tension technology

L-Code: Research **L3906.**

SPECIFICATIONS

| | |
|--------------------------------------|-------------------|
| Length of basic PRO CUFF : | 5.0 in. (12.7 cm) |
| Bracket length adjustability: | ~2.0 in (~5 cm) |
| Overall weight: | 7.5 oz. (213 g) |



Pro Cuff / Simulators

Pediatric (Small) Pro Cuff "Prosthesis" Left/Right



- Constructed of re-formable low temperature plastic-foam laminates
- Aircraft aluminum TD "disconnect" bracket with stainless disconnect adapter
- Accepts most TDs with minimal bracket or TD modification
- Easily modified to accept Texas Assistive Device® TDs

Applications:

A variety of sized and aged children can wear the Pediatric (small) version as well as smaller framed adults. Perfect for activity specific activities when equipped with the appropriate TRS TD.

L-Code: Research **L3906.**

SPECIFICATIONS

| | |
|---|--|
| Length: | 4.1 in. (10.4 cm) |
| Weight: | 2.0 oz. (57g) w/o Bracket 3.5 oz. (99g) with Bracket but without TD |
| DISTAL End Internal circumference range: | 5.25 in. (13.3 cm) – 7.25 in. (18.4 cm) |
| PROXIMAL End Internal circumference range: | 6.63 in. (16.8 cm) – 8.5 in. (21.6 cm) |

- Complete with BOA® closure technology installed
- Provides a basic "platform" for the prosthetist to reinforce and build upon to meet users' needs.
- Thermo-moldable carbon sheet material included.
- Professionally cosmetically finished for positive patient-consumer acceptance
- Wide range of circumferential adjustability, enlarges for easy entry and exit

Prosthetic Simulators



Debra Latour, M.Ed.

Advanced Practice of Occupational Therapy; OTR/L (MA, NY, FL)

"As a Clinician, this technology offers my clients:

- The opportunity to trial the devices giving them a real-life experience and realistic expectations of the prosthesis and Pre-prosthetic training opportunities.
- Empathic experience to patient's family members."



Diane Atkins, OTR

"I see this being helpful for not only OTs in practice looking for a better understanding of how Body Power prostheses work, , OT school faculty, OT students, but also amputee family members who want to experience this opportunity as well.. A terrific teaching tool for them !

The V/C & V/O SIMULATOR accomplishes all of this helping to contribute to more successful outcomes."

Product Codes:

SIML (Left) and SIMR (Right)

Features:

- 1st ever "standardized" prosthetic simulator technology available in "right" or "left" models
- Adjusts to a wide variety of arm sizes and torsos using BOA® cable closure technology
- Constructed of low temperature, thermoformable EXOS® laminates
- Positions terminal device in "optimal" position for performing tasks and training
- Complete with interchangeable Hosmer 5XA V/O Split Hook & TRS V/C GRIP3 Prehensor
- Accepts any USA Standard Terminal Device for comparisons and evaluation-testing
- Easily adjustable Northwestern Figure #9 control harness and cable system
- Sure-Lok cable locking and control technology
- Light-weight at only 1-1/8 pounds (511 grams without the TD)



Harness System



Medial View



Lateral View



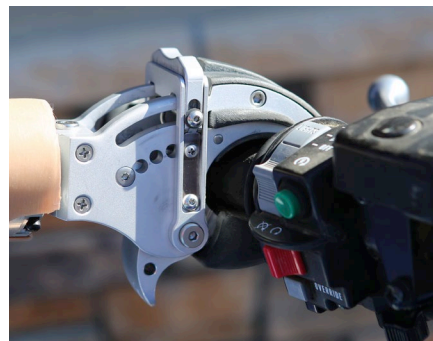
Sure-Lok System



BOA® cable closure technology

These crossover items represent TRS products that have been identified and used by consumers for other purposes. In some cases these uses are vocationally oriented. TRS is identifying these products for information and educational purposes only. *

| Device | Action | TRS Primary Design Use | Crossover Use |
|---|--|---|--|
| Criterion Series  | Grasps handles with small to medium diameter Pivot allows steering, improved control | Biking (Road & Flat Land) | Pushing/pulling Sweeping/raking Steering |
|  Dragon | Can secure manage poled style handles through the 'donut hole' Loosely interfaces with objects Allows freedom of movement | Martial Arts | Home management tasks Property management Climbing Steering |
| Helix  | Molded, 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. | TRUE Cross-Over multi-purpose Vocational-Avocational prosthetic device. Especially useful in any activity specific task that uses long handles or "sticks" like lacrosse, hockey (Ice, street and field), raking, shoveling, garden tools. Also for smaller garden tools, water hose control. Many undiscovered "uses". | |
| ISHI  | Compact, flexible mandible design with ratchet strap for grasping and holding smaller diameter cylindrical handles and tools | Archery, bow, and fishing pole holding terminal device | Rake, shovel and other implement and garden working tool handles, hose and wire cable handling and control |
| Multi-D  Multi-D Pivot | Large, flexible mandible design with heavy duty ratchet strap for securing and holding larger diameter cylindrical handles and tools | Heavy duty tool for controlling shovels and other short and long handle tools like rakes, picks, etc. Carrying heavy loaded buckets and pails and controlling the handles of tools like drills, saws, etc. | Useful for kayaking, rowing, crew and holding heavy-duty, salt water fishing rods and similar equipment with cylindrical handle shapes |
| Swinger  | Loosely interfaces with objects Allows freedom of movement | Gymnastics | Carrying Climbing Steering Fishing |
|  Raptor | High strength, "large #7" shaped titanium lifting and supporting terminal device with replaceable, protective tip for cushion and non-marring applications and greater friction control over surfaces. Unique pivot action increases versatility in lifting, supporting, climbing, etc. | Indoor and outdoor rock and gym climbing. | Heavy duty lifting and transport and loading tasks. Handling Lifting veneer woods, panels or similar |



JAWS Voluntary Opening Prehensors

Product Codes:

JAWSTD / JAWSXFS / JAWSM

Feature:

- Heavy Duty, VO, terminal device. Universal L & R.
- Shift lever for easy force adjustment by user
- JAWS / JAWS XFS: 4 levels of (gripping force) adjustment
JAWS M: 3 levels of adjustment
- Cable operated or manually operated
- Snap On-Off feature, Never locks onto objects
- Radial-Ulnar, friction-adjustable wrist pivot
- Waterproof
- Replaceable polyurethane gripping surface components

Usage:

JAWS is a truly versatile, cross-over terminal device technology capable of controlling tools, handles, and equipment, as well as very functional for vehicle control of work and recreational vehicles such as fork lifts, tractors, ATVs, snowmobiles, motorbikes and cycles, and jet ski type watercraft.

Jaws is also available with a heavy-duty spring option, JAWS XFS (Xtra Force Spring). The JAWS XFS comes with a Main Spring which has nearly 40% more force than the stock spring. Standard JAWS TDs can be retro-fitted with the XFS Spring option. Please contact us for details.

JAWS Medium is a slightly smaller version of the original JAWS designed for younger and or smaller framed individuals. It comes with a single spring option closely equivalent to JAWS in force. We designed it to



JAWS in Low-Power Mode



JAWS in High-Power Mode

be narrower and lighter with three levels of gripping force adjustment. JAWS Medium uses the same high quality materials that exist in the original JAWS model

NOTE: JAWS XFS is only intended for users who need extremely strong gripping forces. JAWS XFS should be used with extra caution, especially in the highest force position, because "releasing the grip" has an extremely high threshold. Additionally, if operating the JAWS XFS with a traditional cable system it may cause premature wear and possible failure of the cable system due to the extra force required to operate the TD.

L-Code: L6721, Add-On L6620

SPECIFICATIONS

| Models: | JAWS / JAWS XFS | JAWS Medium |
|---------------|---|-------------------|
| Length: | 5.0 in. (12.7 cm) | 4.8 in. (12.2 cm) |
| Width (max): | 2.1 in. (5.3 cm) | 1.6 in. (4.0 cm) |
| Height (max): | 3.9 in. (9.9 cm) | 3.7 in. (9.4 cm) |
| Weight: | 15.5 oz. (440 g) | 11.7 oz. (332 g) |
| Materials: | Aircraft Aluminum, stainless steel, polyurethane. Jaws is constructed of aircraft grade aluminum alloys and surgical grade stainless steel and utilizes proprietary TRS polymers. | |
| Color: | Aluminum & Black | |
| Applications: | Teenagers and Adults capable of handling a high performance terminal device. Trans-radial, trans-humeral and bi-lateral applications. | |
| Wrist Units: | TRS OMEGA Friction-Disconnect wrists are totally compatible with JAWS. Hosmer Friction and Disconnect wrists are also compatible. Avoid Economy wrist unit technology. | |



JAWS



JAWS Medium

NEW

JAWS Spring Installation Tool

Product Codes:

JASIT

Features / Function:

The Jaws Spring Installation Tool (JASIT) was especially designed to provide a simple and safe means of replacing and changing out the high-tension springs used in JAWS TDs, inside the clinic-shop environment, using just a solid, machine vice for stability.

Constructed of aircraft grade aluminum and steel components the JASIT is a fixture that is captured in a shop vice. The structural base is approximately twelve inches long by two inches in width and equipped with rubber pads for extra friction and protection in the vice.

Complete instructions and a video are available illustrating the procedure involved to complete the spring change process.

JAWS springs should never be replaced without using the JASIT or injury could occur along with damage to the JAWS TD itself.





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