

# TRS PROCUFF PROSTHOSIS TECHNOLOGY

For ProCuff and ProCuff Pediatric

## ***Features & Instructions***

The TRS PROCUFF is a unique, customizable and thermo-formable forearm brace or gauntlet that is equipped with a rapid disconnect TD bracket system. The PROCUFF utilizes EXOS low temperature, thermo-formable laminate and Boa® cable tensioning and closure technology for suspension and comfort. Left and right models are available.

The PROCUFF is ideal for persons with PARTIAL HANDS, WRIST DISARTICULATION or simply weak or flail hands or hands disabled by severe arthritis, etc. TRS golf, kayak, baseball, swimming and many other similar sports prosthetic accessories can be modified and attached directly into the PROCUFF bracket system.

**NOTE!** If rigorous use like kayaking or light duty weight lifting activities are anticipated we advise reinforcing the inside of the PRO CUFF prior to installing the Bracket to prevent the Rivets/Binding Post Fasteners from pulling through the PROCUFF material. ***WE'VE INCLUDED A THERMO-FORMABLE SHEET OF CARBON FIBER. THIS SHEET CAN BE USED TO MAKE SINGLE OR MULTIPLE-LAYER REINFORCING LAMINATIONS ON THE INSIDE OR OUTSIDE OF THE PROCUFF. WE SUGGEST COVERING THE CARBON FIBER REINFORCING LAMINATE IN THE FINAL PRODUCT. THE CARBON FIBER REINFORCING SHEET CAN BE MOLDED USING A HEAT GUN OR PLACED IN AN OVEN FOR A FEW MINUTES AT 350 DEGREES F, BUT MUST BE DONE AWAY FROM THE PRO CUFF BECAUSE OF THE HIGH HEAT NECESSARY TO MOLD THE CARBON FIBER. PLEASE SEE PHOTO EXAMPLES OF REINFORCING ON REVERSE SIDE OF THESE INSTRUCTIONS!***

The PROCUFF can be used in the water. If used in salt water the entire PROCUFF should be thoroughly washed with soap and water and rinsed, then dried completely.

Do not leave the PROCUFF in the rear window of an auto or anywhere where it will experience direct high heat or sunlight and UV exposure, to ensure a prolonged life.

## **INSTRUCTIONS**

Place the entire PROCUFF in an oven for 5-10 minutes, at 120-130 degrees (F). ***Never exceed 130 degrees (F) or the PROCUFF may become brittle and possibly fracture!*** Pop out the Boa® winder knob to release the cable tension. Push it in to tighten cable. ***Never OVER-TIGHTEN the WINDER & CABLE! ONLY Tighten firmly!***

Remove the PROCUFF, which will now be soft and flexible, and slide onto the Patient's forearm, *ensuring that the material temperature is acceptable to the patient.* Using your hands mold the PROCUFF to the patient's limb compressing the material medially and laterally and hand shaping it so that it comfortably conforms to the patient's limb. Use the Boa® system to contract and tighten the PROCUFF around the limb. Align the overlapping edges for comfort and fit. As the PROSTHOSIS cools it hardens and will retain the newly molded shape. It can be re-heated and re-molded many times over.

## **PDTA1000 and PDTA2000 (PEDIATRIC) ORIENTATION & BRACKET MOUNTING**

The TRS PROCUFF has been designed to have the Boa® winder technology on the **LATERAL** side of the arm, rather than on the medial aspect.

The PDTA1000 and PDTA2000 (Pediatric) aluminum bracket and disconnect adapter system allows almost any terminal device with a USA Standard ½ inch diameter, threaded mounting stud to be threaded into the disconnect adapter and then inserted and attached into the bracket. The adapter is secured by two nylon-tipped set screws, which can allow for adjustable frictional rotation or be locked down into one specific position.

The bracket is mounted to the **MEDIAL** aspect of the PROCUFF, using stainless steel BINDING POST fasteners and the black washers (Included). (SEE NOTE ABOVE REGARDING REINFORCEMENT) A series of pre-formed holes exist for positioning the bracket **PROXIMALLY-DISTALLY** along the medial side of the PROCUFF. ***NOTE:*** The bracket position is dependent upon the Terminal Device used. Certain TDs like a SWIM FIN will require that the bracket be mounted forward DISTALLY. Other TDs like a TRS GOLF PRO might require the bracket to be mounted more proximally to optimize the Flexible Coupling's movement and the exact position of the golf grip

attachment component for proper “hand” position. In some cases a custom “spacer” may need to be fabricated and placed under the bracket to give clearance for larger diameter TDs such as the Hammerhead Kayak device.

We recommend using BLUE LOCTITE® or a similar “removable” thread fastener adhesive on the binding post threads, to prevent the posts from loosening during use.

### TIME

TRS anticipates that it will take approximately one half hour to complete the entire process of fitting the patient and mounting the bracket for TD attachment. Additional time will be required if you need to fabricate and install additional reinforcing to the PROCUFF.



BOA Closure View



Terminal Device Adapter View



Carbon Reinforcing Plate illustrated and (unattached) TD Adapter shown for clarity

