Hanger FABRICATION NETWORK

TF-ESR AFO

Introducing the Thermoformed Energy Storing and Return AFO. Our latest ESR AFO is a resourceful end product from Hanger clinicians and HFN engineers, principal designer Tom DiBello has developed a functionally equivalent, cost effective alternative to custom pre-preg AFOs designed to address complex stance phase gait deficiencies in neuromuscular and orthopedic populations.

Features and Benefits

- **Novel Design:** This monolithic (one-piece), energy storing and returning AFO is thermoformed from carbon-infused polypropylene. It achieves levels of resistance comparable to other monolithic designs, by incorporating a novel “inverted U channel structural beam” posteriorly as a strut. It offers improved heel counter control and plantar surface personalization compared to pre-preg options. Three strut profile options are available to complement treatment goals.
- **Quality Testing:** Each orthosis undergoes evaluation of its stiffness to ensure it matches the clinicians order and extensive testing to ensure reliability and functional equivalence.
- **Simplified Ordering:** Our streamlined selection process makes it easy to choose the right design to match your patient’s needs.
- **Comparable and Affordable Option:** This alternative ESR AFO provides similar stability and energy return using materials at a substantially lower cost. Check out this **case study** using outcome measures to compare designs, capture patient function, perception, and preference.

Discover how the TF-ESR AFO can enhance patient outcomes with its innovative design and cost-effective approach.

Strut Profile Options

- **Mild Control:** Provides minimal resistance to tibial advancement in stance. Candidate: MMT: DF ≤ 3, PF ≥ 4, KE ≥ 4+
- **Moderate Control:** Provides moderate resistance to tibial advancement in stance. Candidate: MMT: DF ≤ 3, PF ≤ 4, KE ≥ 4
- **Firm Control:** Provides firm resistance to tibial advancement in stance. Candidate: MMT: DF ≤ 3, PF ≤ 3, KE ≥ 4