

FDE ADULT NEUROMUSCULAR

MODULAR
ENGINEERED
CARBON SPRING
SYSTEM



INFORMATION

Rev.20260409.1

For additional information, instructions and guides scan the code >>

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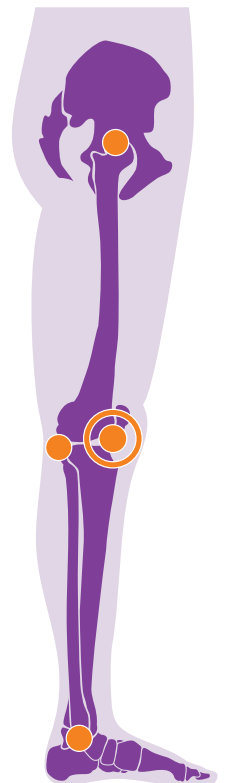


A MODULAR SYSTEM

The Neuromuscular Adult PDE™ is a modular engineered carbon spring system for composite & thermoplastic AFO brace designs. This simple, alignable system provides the ability to tune energy storage and return as the patient changes. Simultaneously and independently adjust transverse and sagittal plane alignment (internal/external rotation and dorsi/plantar flexion).

A PERFECT SOLUTION FOR

- Inability to perform 9 single-leg heel raises or delayed heel rise at terminal stance
- Stance-phase gait deviations (crouch gait, genu recurvatum, knee instability) or frequent falls
- Nerve or muscle impairment below the knee
- Soft-tissue injury or loss
- Nerve or muscle loss below the knee
- Foot drop with additional conditions requiring custom fabrication
- Desire to return to recreational sports
- Conditions such as: Guillain-Barre Syndrome, Spina Bifida, Spinal Cord Injury, CVA, MS, CMT, CP, Polio, and similar conditions



FEATURES AND BENEFITS



Modular, Reusable Design

Change and test different springs to accommodate changes in the patient over time



Clinically Proven

The PDE spring system has been delivered to a large patient population world-wide with incredible results



Adjustable Alignment

The PDE Shim Kits (tapered wedges) allow for fine-tuning of alignment during patient fitting, delivery, and follow-up to improve the function, performance, lifetime, and comfort of the AFO



5 Flex (stiffness) Spring Categories

Makes it easy to find the right option for your patient



Low Profile

Slim & unobtrusive design fits easily under clothing and into shoes



Reliable

Consistently delivering top performance and durability over time



Made in the USA

PDE parts are manufactured, tested, and assembled in the USA

***Easily integrated into all brace designs (composite/thermoplastic/3D printed, etc)**



SPECS

- Length: 200mm/250mm
- Width: 30mm
- Stiffness: Categories 1 through 5

ADJUSTABLE ALIGNMENT

The PDE modular system allows for fine-tuning the alignment during patient fitting, delivery, and follow-up; To improve the function, performance and comfort of the AFO brace.

PDE Alignment Shim Set

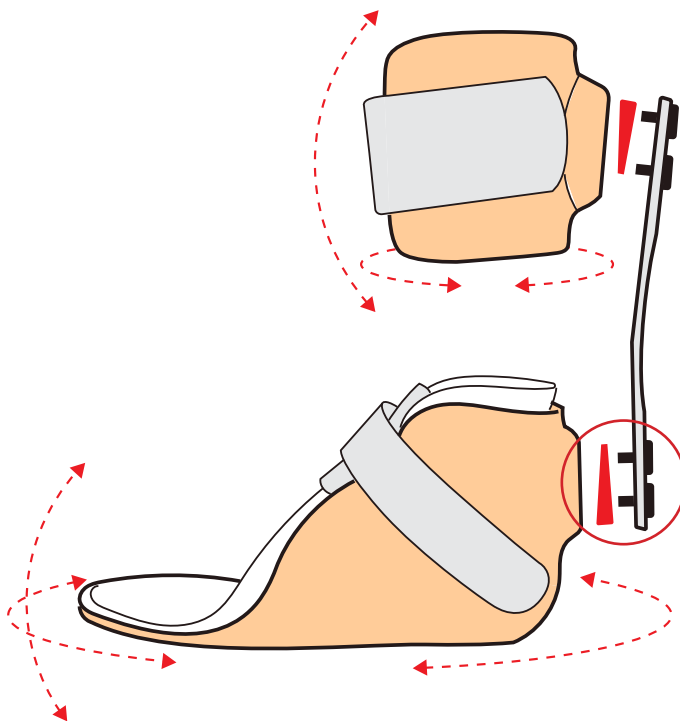
Part number: **TPAS-1**

PDE alignment shims, inserted between the PDE Spring and AFO, adjust the plantar/dorsi flexion and rotational alignment (in 2.5° increments) of both the upper-cuff & footplate individually.

Shims can be changed and adjusted at any appointment, making it possible to continuously adapt to patient changes.

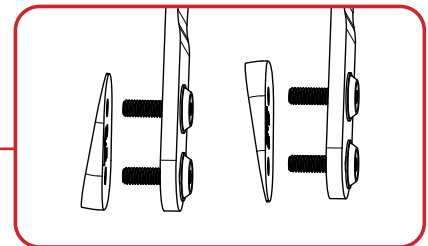


Symmetrical shape accommodates flexion and extension as needed



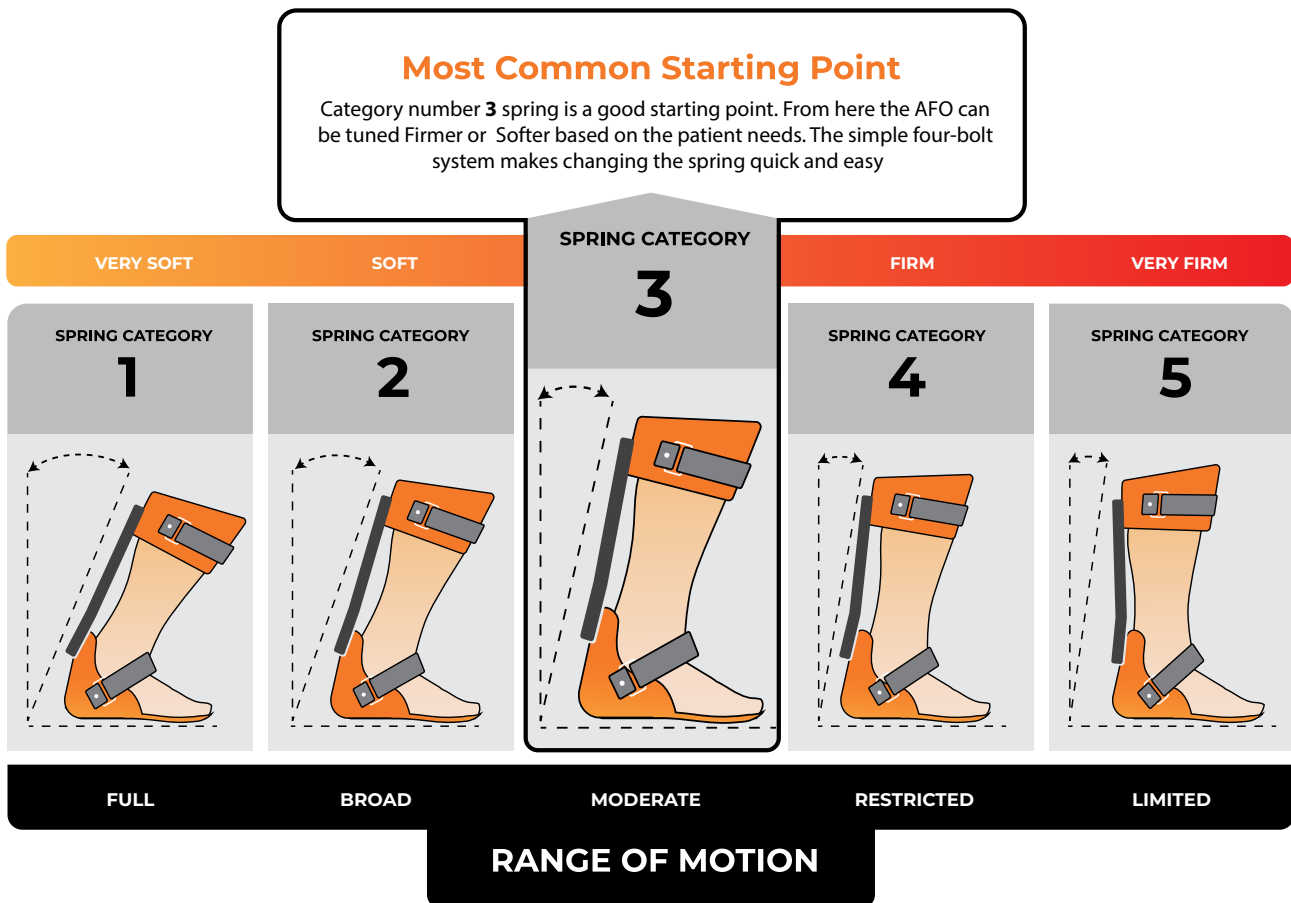
ADJUSTABLE SAGITTAL AND TRANSVERSE PLANE ALIGNMENT

Shims are placed between the PDE spring and brace anchor point.



CHOOSING SPRING CATEGORY (FIRMNESS)

The right spring category enhances support, comfort, and performance for various needs.



Each patient has unique needs, so there are no specific weight limits or ranges to guide spring selection. Instead, choose the engineered spring category that best enhances the patient's gait and overall functionality.

NOTE

A **PDE™ Diagnostic Fitting Kit** is the best way to evaluate and fit a patient for the appropriate spring category

SWAP IT OUT & LOCK IT DOWN

Make quick and secure spring changes with our Reaktiv Torque Wrench

Reaktiv Torque Wrench

Part number: **Reaktiv Wrench**

The Reaktiv Wrench is a pre-set torque wrench that takes the guess work out of enhancing a safe and functional connection after adjustments.



DIAGNOSTIC FITTING KITS

When building a custom device, it's always nice to have options. That's why we created the PDE Fitting Kit diagnostic tool.



PDE Neuromuscular (Adult) Fitting Kit

The Fitting Kit is an in-house diagnostic tool which includes the most common range of spring categories (1-5) and assembly components to build the initial brace. It also allows for fine-tuning adjustments during patient fitting & delivery.

Part Numbers:

200mm: TPFK200
250mm: TPFK250



LEARN MORE

4 EASY STEPS



How It Works

Replace the the parts that get used so you always have a full set of springs & hardware to fit your next patient.

PARTS & ACCESSORIES



TP200: 200mm Springs
Categories 1-5



TP250: 25mm Springs
Categories 1-5



TPAK-1: Anchor Kit
For Thermoplastic Braces



TPAK-3: Anchor Kit
For Carbon Braces



TPAS-1: Alignment Shim Set



60SS: Pluseries™
60-Second Adhesive



FKP200/FKP250: PDE Neuromuscular Adult Fitting Kit
Available in 200mm or 250mm sizes




G50: Adhesive Dispenser

USING THE RIGHT ANCHOR KIT?

Anchor kits are design for specific material applications. We have created a compatability chart so you know exactly which anchor kit to use. Scan the code to access/download.

ACCESS & DOWNLOAD CHART


		ORTHOPEDIC			NEUROMUSCULAR		KIDS MAX	KIDS		APPLICATION	
		200mm	250mm	300mm	200mm	250mm	200mm	175mm	225mm	PLASTIC	COMPOSITE
ANCHOR KITS	 PAK-1	✓	✓	✓	⊘	⊘	⊘	⊘	⊘	⊘	✓
	 PAK2-HD	✓	✓	✓	⊘	⊘	⊘	⊘	⊘	⊘	✓
	 TPAK-1	⊘	⊘	⊘	✓	✓	✓	⊘	⊘	✓	⊘
	 TPAK-2	⊘	⊘	⊘	✓	✓	✓	⊘	⊘	✓	⊘
	 TPAK-3	⊘	⊘	⊘	✓	✓	✓	⊘	⊘	⊘	✓
	 TPAK-4	⊘	⊘	⊘	⊘	⊘	✓	✓	✓	✓	⊘
 TPAK-5	⊘	⊘	⊘	⊘	⊘	✓	✓	✓	⊘	✓	

L-CODE EXAMPLES

Please Note: Proper Coding is ultimately up to the practitioner and the practice. Please use the information only as a guide to possible code utilization. You must document the patient condition in the patient encounter notes in order to justify some of the associated coding.

***Please Note:** Proper Coding is ultimately up to the practitioner and the practice. Please use the information only as a guide to possible code utilization.

Clinicians must document patient condition in clinical notes to justify associated coding (per clinician's discretion).

AFO Type	Code	Description	Notes
Pretibial Shell	L1970	Ankle foot orthosis, plastic with ankle joint, custom fabricated	
	L2340	Addition to lower extremity, pre-tibial shell, molded to patient model	
	L2780 (x2)	Addition to lower extremity orthosis, non-corrosive finish, per bar	
	L2220	Addition to lower extremity, dorsiflexion and plantar flexion assist/resist, each joint	
	L2755 (x1 or 2) *	Addition to lower extremity orthosis, high strength, lightweight material, all hybrid lamination/prepreg composite, per segment, for custom fabricated orthosis only	* (x2) if using ProComp™ footplate or ordering a ReVive
	L2232	Addition to lower extremity orthosis, rocker bottom for total contact ankle foot orthosis, for custom fabricated orthosis only	
	L2820	Addition to lower extremity orthosis, soft interface for molded plastic, below knee section	
	L2250*	Addition to lower extremity, foot plate, molded to patient model, stirrup attachment	* Clinician to determine necessity for each case, describes use of TPAK-2 reinforced PDE Anchor kit
	L2270*	Addition to lower extremity, varus/valgus correction ('T') strap, padded/lined or malleolus pad	* Clinician to determine necessity for each case
	L2275*	Addition to lower extremity, varus/valgus correction, plastic modification, padded/lined	* Clinician to determine necessity for each case
	L2280*	Addition to lower extremity, molded inner boot	* Clinician to determine necessity for each case

Floor Reaction Design	L1945	Ankle foot orthosis, plastic, rigid anterior tibial section (floor reaction), custom-fabricated	
	L2780 (x2)	Addition to lower extremity orthosis, non-corrosive finish, per bar	
	L2220	Addition to lower extremity, dorsiflexion and plantar flexion assist/resist, each joint	
	L2755 (x1 or 2) *	Addition to lower extremity orthosis, high strength, lightweight material, all hybrid lamination/prepreg composite, per segment, for custom fabricated orthosis only	* (x2) if using ProComp™ footplate or ordering a ReVive
	L2232	Addition to lower extremity orthosis, rocker bottom for total contact ankle foot orthosis, for custom fabricated orthosis only	
	L2820	Addition to lower extremity orthosis, soft interface for molded plastic, below knee section	
	L2250*	Addition to lower extremity, foot plate, molded to patient model, stirrup attachment	* Clinician to determine necessity for each case, describes use of TPAK-2 reinforced PDE Anchor kit
	L2270*	Addition to lower extremity, varus/valgus correction ('T') strap, padded/lined or malleolus pad	* Clinician to determine necessity for each case
	L2275*	Addition to lower extremity, varus/valgus correction, plastic modification, padded/lined	* Clinician to determine necessity for each case
	L2280*	Addition to lower extremity, molded inner boot	* Clinician to determine necessity for each case



NEED TRAINING & ASSISTANCE?
ACCESS OUR PDE KNOWLEDGE BASE

PDE KNOWLEDGE BASE

VISIT FOR INSTRUCTIONS, TUTORIALS AND ADDITIONAL
INFORMATION



fabtechsystems.com/pde-knowledge-base/

CONTACT US
WE'RE HERE TO HELP!



Support



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Solution

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