

# FDE KIDS

## NEUROMUSCULAR



MODULAR ENGINEERED CARBON SPRING SYSTEM



# INFORMATION

Rev.20240603.1

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



800.FABTECH | FABTECHSYSTEMS.COM | 3304 HILL AVE. EVERETT, WA. 98201





## A MODULAR SYSTEM

The PDE™ Neuromuscular Kids is a modular engineered carbon spring system for composite & thermoplastic AFO brace designs. This simple, align-able system provides the ability to tune functional energy performance as the patient grows and changes. Dynamically adjust external, internal, plantar & dorsiflexion alignments as well as easily change spring stiffness.

## A PERFECT SOLUTION FOR

- Smaller sized patients such as kids & youths.
- Patients with moderate muscle weakness who would benefit from Dorsiflexion & Plantarflexion assistance.
- Nerve/muscle impairment below the knee.
- Deficit of dorsiflexion and/or plantarflexion.
- Common conditions such as: Guillain-Barre Syndrome, Spina Bifida, Spinal Cord Injury, Cerebral Palsy, Spasticity, & Heel Cord Tightness.
- Any patient who would benefit from:
  - The tri-planar stability of a custom articulated AFO.
  - The reliable control and ground reaction from a custom solid-ankle AFO.
  - The energy return of a custom posterior leaf spring AFO.



## 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 shim kits (tapered wedges), allow for fine-tuning plantar/dorsi flexion as well as internal/external rotation of the foot during fitting and delivery of the brace.



### 7 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: 175mm/225mm
- Width: 20mm
- Stiffness: Categories 1 through 7

## 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 Kids Alignment Shim Set

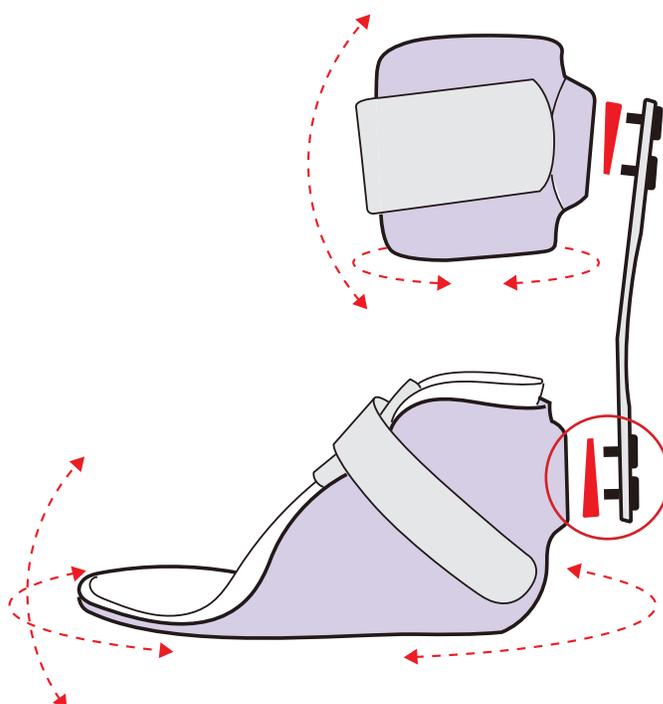
Part number: **TPAS-2**

Alignment shims can be effortlessly inserted between the PDE spring and the brace to 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 time during the life of the brace, making it easy to adapt to patient changes.

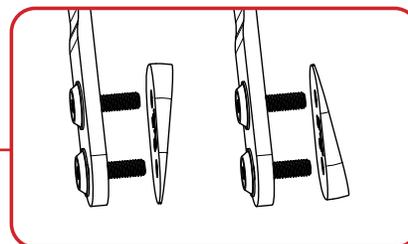


Symmetrical shape accommodates flexion and extension as needed

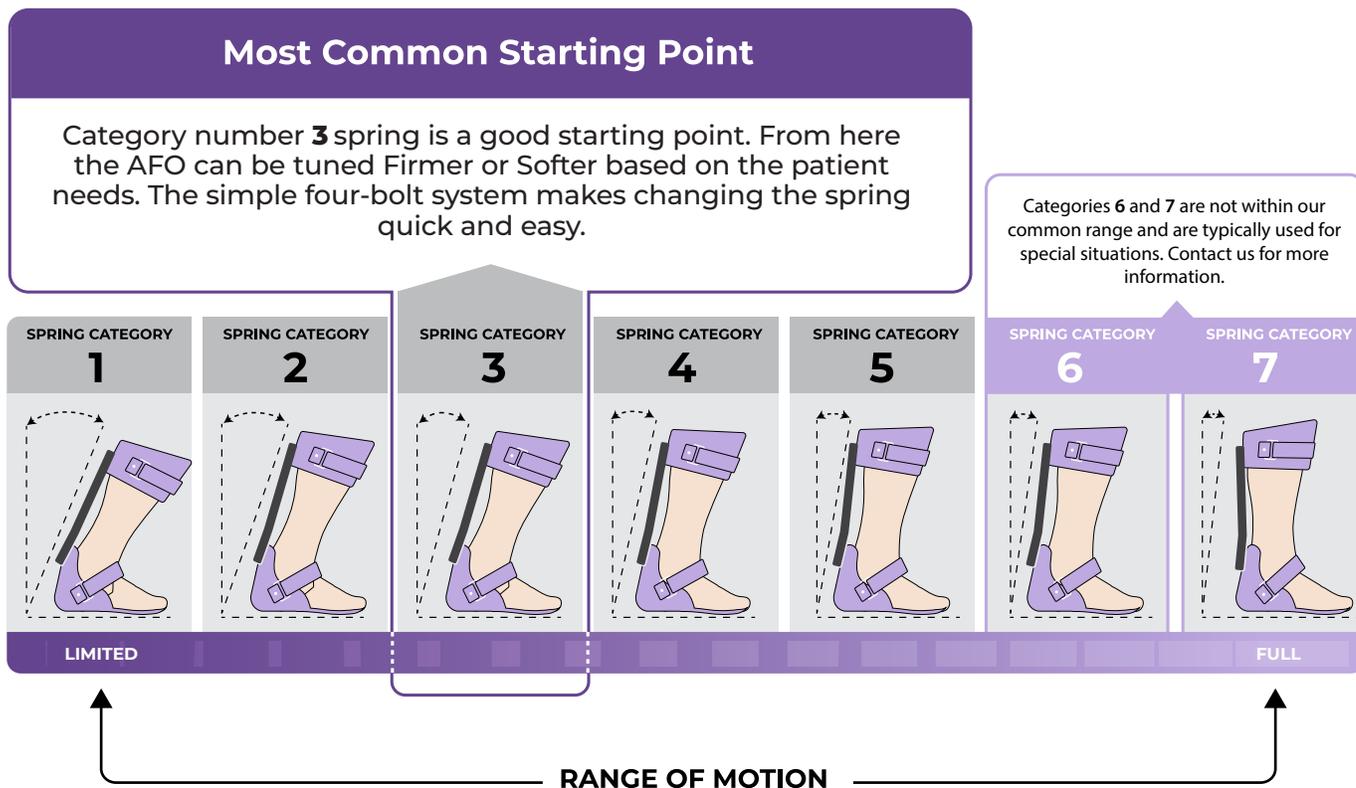


### ADJUSTABLE PLANTAR/DORSI FLEXION & ROTATIONAL ALIGNMENT

Shims are placed between the PDE spring and brace anchor point. Shim positioning determines alignment angle.



## CHOOSING SPRING CATEGORY (FIRMNESS)



Because every patient has unique needs there are no specific weight limitation or ranges that aid in spring choice. Choose the category engineered spring that delivers the best gait and overall function for the patient.

## 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 Kids (Pediatric) 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:**  
175mm: FKP175  
225mm: FKP225

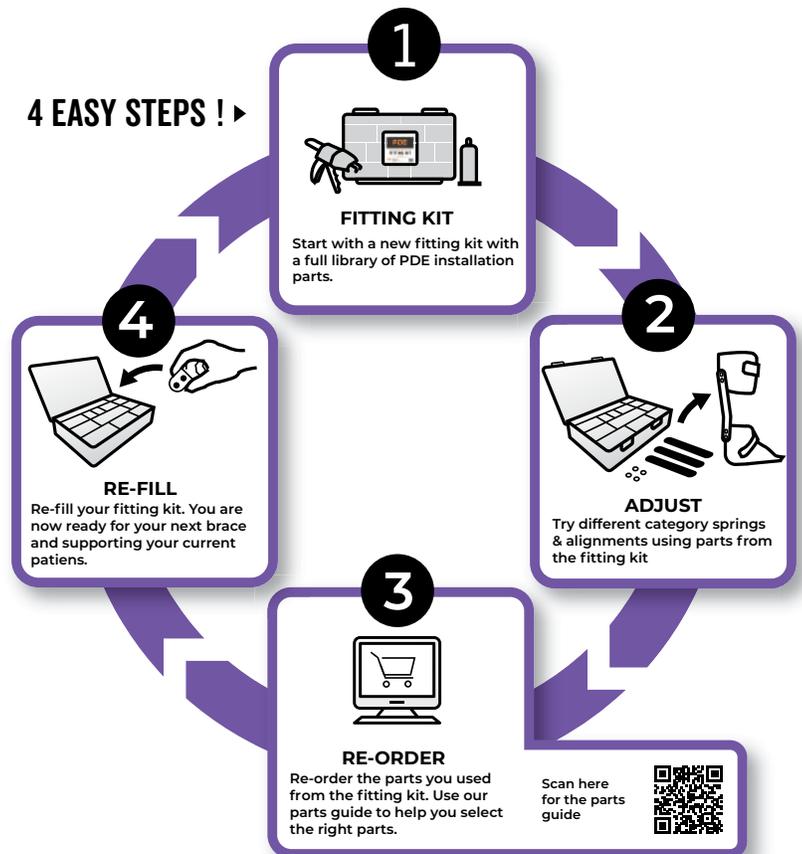


LEARN MORE

### 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.

### 4 EASY STEPS ! ▶



**PARTS & ACCESSORIES**



**TP175:** 175mm Springs  
Categories 1-7



**TP225:** 225mm Springs  
Categories 1-7



**TPAK-4:** Anchor Kit  
For Thermoplastic Braces



**TPAK-5:** Anchor Kit  
For Carbon Braces



**TPAS-2:** Alignment Shim Set



**60SS:** Pluseries™  
60-Second Adhesive



**FKP175/FKP225:** PDE Neuromuscular Kids (Pediatric) Fitting Kit  
Available in 175mm or 225mm sizes



**G50:** Adhesive Dispenser

OR THROUGH ONE OF OUR DISTRIBUTORS

**ORDER  
DIRECT FROM  
FABTECH**









### 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**

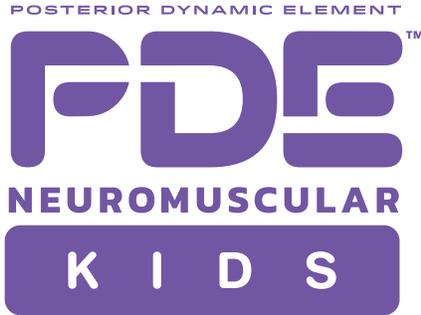


ANCHOR KITS	PDE SPRINGS									APPLICATION	
	ORTHOPEDIC			NEUROMUSCULAR		PEDIATRIC				PLASTIC	COMPOSITE
	200mm (PS .50-7)	250mm (PS .50-7)	300mm (PS 1-7)	200mm (TP 1-5)	250mm (TP 1-5)	175mm (TP175 1-7)	225mm (TP225 1-7)				
PAK-1	✓	✓	✓	⊘	⊘	⊘	⊘	⊘	⊘	⊘	✓
PAK2-HD	✓	✓	✓	⊘	⊘	⊘	⊘	⊘	⊘	⊘	✓
TPAK-1	⊘	⊘	⊘	✓	✓	⊘	⊘	⊘	✓	⊘	⊘
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.

Design Type	AFO Component	L-Code
Pretibial Shell	Articulated molded thermoplastic AFO	L1970
	Pretibial shell	L2340
	Non-Corrosive finish - per bar (anchor)   When using the aluminum anchors designed for composite braces.	L2780
	Dorsiflexion assist/resist	L2220
	Composite x1 (or x2 if using ProComp™ reinforcement)	L2755
	Soft Interface	L2820
	Varus/Valgus Cor. (if pad or strap)	L2270
	Varus/Valgus Cor. (if modified into cast)	L2275
PTB Design	Articulated molded thermoplastic AFO	L1970
	PTB shell	L2350
	Non-Corrosive finish - per bar (anchor)   When using the aluminum anchors designed for composite braces.	L2780
	Dorsiflexion assist/resist	L2220
	Composite x1 (or x2 if using ProComp™ reinforcement)	L2755
	Soft Interface	L2820
	Varus/Valgus Cor. (if pad or strap)	L2270
	Varus/Valgus Cor. (if modified into cast)	L2275
Floor Reaction Design	Floor Reaction	L1945
	Dorsiflexion assist/resist	L2220
	Non-Corrosive finish - per bar (anchor)   When using the aluminum anchors designed for composite braces.	L2780
	Composite x1 (or x2 if using ProComp™ reinforcement)	L2755
	Soft Interface	L2820
	Varus/Valgus Cor. (if pad or strap)	L2270
	Varus/Valgus Cor. (if modified into cast)	L2275



**NEED TRAINING & ASSISTANCE?**  
ACCESS OUR PDE KNOWLEDGE BASE

**PDE KNOWLEDGE BASE**

VISIT FOR INSTRUCTIONS, TUTORIALS AND ADDITIONAL  
INFORMATION



[fabtechsystems.com/pde-knowledge-base/](https://fabtechsystems.com/pde-knowledge-base/)

CONTACT US  
WE'RE HERE TO HELP!



Support



Advice



Service



Information



Solution

CUSTOMERSERVICE@FABTECHSYSTEMS.COM

PHONE: 1.800.FABTECH

