



# KiddieGAIT™

An exciting option in the ToeOFF® Family of Products Floor reaction control and dynamic assist for toddlers.



## Pediatric gait poses special challenges due to the dynamic muscle tone that often presents in much of this population.

Not only are there the usual ground-reaction forces involved in gait biomechanics, but also top-down spasticity driven forces that exacerbate gait deviations and deformities.

Now, KiddieGAIT offers innovative options that have never been available for AFO management of these challenges. Functional environments can be created that supplement gait function instead of immobilizing and inhibiting that function.

**Start off on the right foot – give toddlers an orthosis that will allow their little feet to move in a more fluid and natural biomechanical gait pattern.**

- Carbon composite with anterior shell, lateral strut, and an engineered footplate with an open calcaneal design.
- Designed to allow integration of your custom foot orthotic to help control ground-up forces.
- Lateral strut can also serve as a base to affix a T-Strap to control excessive eversion at the ankle.
- Anterior shell to assist in management of proximal deficits by helping to overcome either knee hyper-extension or crouch gait.

The ToeOFF® carbon composite AFO has proven itself invaluable for more than ten years in helping manage adult gait deficits, including those with some tone involvement. Now you can extend many of the benefits of this design concept to manage the lower extremity functional challenges of this younger population.

### INDICATIONS

- Footdrop
- Gait deviation secondary to proprioceptive deficit (Either unstable or low-tone gait)
- Toe-walker with no midfoot collapse
- Low Tone Crouch Gait
- Spina Bifida
- Cerebral Palsy
- Muscular Dystrophy
- MMC

### CONTRAINDICATIONS

- Lacking ROM towards dorsiflexion (need at least 5° dorsiflexion past neutral)
- Very rigid foot structure
- Quadriceps spasticity
- Fixed postural Genu Valgum or Genu Varum
- Fixed postural Pes Valgus or Pes Varus

### LIMITATIONS

- Severe Knee hyperextension



# Give them the stability they need

without locking up their little ankles!

## Benefits

- Functional heel-to-toe gait when used in conjunction with appropriate foot orthotic.
- Anterior support provides opportunity to enhance proprioceptive response.
- Lightweight—so important for these little feet.
- Can use less brace to do the same work as traditional plastic AFOs.
- Footplate gives spring assist - KiddieGAIT gives back energy.
- Anterior support adds stability and opportunity to manage knee extension/flexion moment.
- Softer and more dynamic heel rocker, which creates softer loading to reduce knee flexion moment.
- Therapy friendly - able to use SMO only for therapy, or with KiddieGAIT when stability and/or dynamic assist is required.
- Wearer compliance is increased - lightweight functional support allows more fluid and productive gait (less tiring).

## FOOT INTERVENTIONS

KiddieGAIT should always be combined with an additional orthotic, designed to control the position of the foot. It is important that the foot position is as close to neutral as possible when bearing weight. The most common foot related problems like pronation, supination, pes varus, pes valgus should be corrected with this additional orthotic.

When spasticity is present, it is generally recommended that this orthotic include a deep heel cup to further encourage the heel-to-toe gait.

The following are guidelines only. When the foot related problems are:

*Mild* = use a Foot Orthotic that is deep and firm

*Moderate* = UCB (Deep Foot Orthotic with trim line below ankle)

*Severe and/or tight achilles tendon* = SMO (Supra Malleolus Orthosis or Molded Inner Boot)

For low tone (hypotonia) and pronation, consider a soft SMO, such as SureStep™.

## SHOE

### CONSIDERATIONS

- When spasticity is present, a rocker sole with approximately a 10mm heel height. For hypertonia, consider a flat sole but build up the heel - either under the footplate or externally to accommodate the heel rise built into KiddieGAIT.
- Removable insole
- Firm counter
- Secure closure



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## Functional Heel-to-Toe Gait!

KiddieGAIT offers a carbon composite framework for you to build an orthosis to encourage functional heel-to-toe gait. While an SMO (molded inner boot) or UCB controls the foot, the KiddieGAIT floor reaction frame adds dynamic response, lower leg anterior support and stability, and/or opportunity for management of knee extension/flexion moment. This combination offers a unique opportunity for you to customize function to meet specific patient needs.



KiddieGAIT with SMO



KiddieGAIT with UCB

KiddieGAIT with SureStep™

For more info on SureStep, visit [www.surestep.net](http://www.surestep.net).

# kiddieGAIT™

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