

THE MODIFIABLE FOOT ORTHOSIS
WITH ACTIVE IMPULSES







# **4** Reasons to use Springer's impulse! orthoses:





#### Proven sensomotoric concept

impulse! orthoses provide you with a **new and effective** tool for your practice.



#### Premium orthoses

Springer's quality materials and manufacturing process ensure long-term durability and superior performance.



#### **Results show patient improvements**

Provide your patients with an orthotic solution shown to improve outcomes.



## Performance that boosts your bottom line

Works in every shoe and is quickly and easily modifiable. Increase your efficiency and margins by adopting the unique impulse! design.

#### When can you use impulse! foot orthoses?

Springer's sensomotoric impulse! and PROPRIO lines of orthoses are indicated for patients with the following\*:

- ► Pes planus
  ► Calcaneal inversion
- Pes valgus
   Genu valgum
- ► Please contact us for information regarding additional indications.

 $\ast$  Springer impulse! is not recommended for patients with neurological diagnoses and diabetes.

\*Study: Ludwig O., Quadflieg R., Koch M. (2013): »Impact of a sensorimotor foot orthotic on the activity of the m. peroneus longus during the stance phase«. Deutsche Zeitung für Sportmedizin (German Journal for Sports Medicine) 64(3), 77-82. DOI: 10.5960/dzsm.2012.049

Available upon request. Please email contact@pedserv.com for more information.



## ACTIVE TREATMENT PROVEN RESULTS



# WHY SHOULD YOU RECOMMEND IMPULSE! CUSTOMIZABLE FOOT ORTHOTHOSES?

- When your patient's physician does not specify a custom orthotic, or when your patient's insurance does not cover a custom orthotic, Springer's impulse! line is a perfect solution. The impulse! line uniquely offers the benefits of custom sensomotoric orthoses in an easily modifiable, prefabricated package.
- The design for impulse! is based on thousands of custom-made sensomotoric foot orthoses. For more than a decade, Springer has collected enough data to design a proven sensomotoric orthotic that is prefabricated while still being modifiable.
- ▶ impulse! orthoses allow you to evaluate, modify, and dispense—all in a single patient visit. Springer's products are not only the highest quality at an affordable price, but they also help to increase your efficiency, save you valuable time, and increase your margins.







#### SHAPE WITH FUNCTION THE LAST

Scientists and researchers have been applying sensomotoric concepts to the management of foot malalignments for more than 15 years. During this time, Springer has been at the forefront of foot orthotic development using the sensorimotor principle. It has been our company's primary objective to see sensomotoric orthoses become a chosen treatment method for physicians, therapists, and pedorthists around the globe.

We're proud to say that more and more practitioners have adopted this protocol, and that we've had the opportunity to continually improve our designs. Based on the latest scientific evidence, we have modified our active shoe last shape to offer you the best modular substructure for fabricating sensorimotor foot orthoses in your routine operations.



\*Study: Ludwig O., Quadflieg R., Koch M. (2013): »Impact of a sensorimotor foot orthotic on the activity of the m. peroneus longus during the stance phase«. Deutsche Zeitung für Sportmedizin (German Journal for Sports Medicine) 64(3), 77-82. DOI: 10.5960/dzsm.2012.049

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# SHAPE WITH FUNCTION THE PRINCIPLE

Sensorimotor foot orthoses function according to proven neurophysiological mechanisms. They modify and control sensory stimulation via impulses primarily of the musculotendinous spindles—thereby regulating muscle tension. The effect is specifically characterized by enhanced joint stability and improved alignment of the leg and body axes, while also producing a more physiological gait pattern. For patients with pes planovalgus calcaneus, for instance, this translates into enhanced muscle tension in the posterior tibial muscle and the toe flexors. The reason for this is that these muscles actively promote foot arch alignment and counteract valgization of the calcaneus.





# 128.impulse



# 138.impulse







128.impulse



138.impulse



Both models can be delivered quickly from our Express stock.

SUITABLE SHOE TYPES:



Sports



Hiking



Comfort

CUSTOMIZABLE IN 11 SIZES, EXTRA DEPTH TO ALLOW FOR MODIFICATIONS

QUALITY MATERIALS DESIGNED FOR MODIFICATION

- Cushioning foot orthosis with soft padding
- Modifiable for either supination or pronation
- ► Can be relieved for heel spur
- Adjustable for leg length discrepancy
- Modifiable to patient
- Modifiable to last/cast

#### DIAGNOSIS

- Pes valgus or planovalgus
- ► Heel spurs, where applicable



# 148.impulse







148.impulse

SUITABLE SHOE TYPES:



Hiking



Comfortable

#### QUALITY AND TECHNOLOGY

TRADITIONAL MATERIALS WITH MODERN IMPULSE DESIGN

- Cork/leather cushioning insole
- Modifiable for either supination or pronation
- ► Can be relieved for heel spur
- Adjustable for leg length discrepancy
- ▶ <sup>3</sup>/4-length cushioned footbed
- Soft cushioned forefoot footbed
- Modifiable to patient
- Modifiable to last/cast

#### DIAGNOSIS

Pes planovalgus calcaneus















5430.impulse



The models can be delivered quickly from the express warehouse.

SUITABLE SHOE TYPES:



Children's shoes



Chucks



Sneakers



Soccer cleats

#### 14 KIDS SIZES, EASY TO MODIFY

FROM A MILLED BASE TO ALMOST READY

- Shell foot orthosis made of thermoplastics
- Modifiable for either supination or pronation
- Adjustable for leg length discrepancy (only available for 130.impulse model)
- ▶ ¾-length cushioned footbed
- Soft cushioned forefoot footbed
- Modifiable to patient
- Modifiable to last/cast

#### DIAGNOSIS

► Pes planovalgus calcaneus





1737.impulse











Leisure footware

### Soccer cleats





# DISPLAY BANNER FOR YOUR FACILITY

If you are ordering the 21-pair package for the first time, you will receive a complimentary Springer impulse! banner.

**PVC tarpaulin**, 1 x 1,5 m, with a seam along the top and bottom, 3 eyelets at the top for hanging



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