



Walk with Confidence

The Rise

Ankle-Foot Orthoses

 **REZOLVE**
MEDICAL



**A drop foot should not
stop you from being
you.**

Life doesn't stop. Neither should you. At Rezolve Medical, we create solutions that move with you naturally, so the only thing on your mind is where you're going next.

What do our users think?

Every person living with a drop foot has their own story. Here is how the Rise has made a difference in the lives of those who wear it every day.

“ I think the Rise is a fantastic product. I have a mild drop foot, which means I can no longer wear regular shoes without stumbling. With the Rise, I can walk without any problems again, and not just short distances, but really long ones too. It is incredibly light, and it sits so discreetly along my leg that you can barely notice it. Being able to walk normally in regular shoes again has made me very happy, and I am truly grateful for the experience. ”

Franeker, 64 Condition: Herniated disc

“ I honestly wouldn't want to go back to life without it. When it comes to walking, it performs really well. It sits beautifully along my leg and is incredibly lightweight, which makes a real difference day to day. In fact, people around me actually thought I had stopped wearing a brace altogether. ”

Anna, 43 Condition: Peripheral nerve damage

“ I wear the Rise every single day. What I love most is how easy it is to take on and off. I can remove it just like that, without any hassle. I actually wore it all day long, and when I was out, I barely had to think about it. That convenience makes a huge difference to my life. ”

Lily, 71 Condition: Multiple sclerosis

Reimagining what an ankle brace can be: **Dynamic, discreet, designed for you.**

The Rise is a personalised, dynamic ankle-foot orthoses for people with drop foot. It is 3D-printed to your anatomy for optimal comfort and support, it doesn't enter the shoe and has a flexible personalised structure for optimal functioning

Designed from a 3D scan of your leg, it offers a precise fit, moves naturally with you, and integrates easily into daily life.

Currently, The Rise is available in two levels of support: 100 (Dorsiflexors MRC 3 & 4) and 110 (MRC <3).





What makes the Rise unique?

- 01 Comfortable**

The footplate under the sole is replaced by a smaller one positioned on the upper surface of the foot.
- 02 Personalized**

Every Rise is made specifically for you, using a 3D scan of your leg.
- 03 Functional**

Dynamic, pre-tensioned design provides optimal foot lift, all under 200g.
- 04 Integrated**

Fits inside most shoes and can be removed without taking them off.

Personalised for You.

Each Rise is personalised to meet the required support you need, based on your biomechanical requirements. In addition, an ergonomic fit is ensured to match your unique anatomy. Each unique Rise achieves this by individualisation of support levels, custom force transfer and ergonomic component modelling.

1 Individualisation of support levels

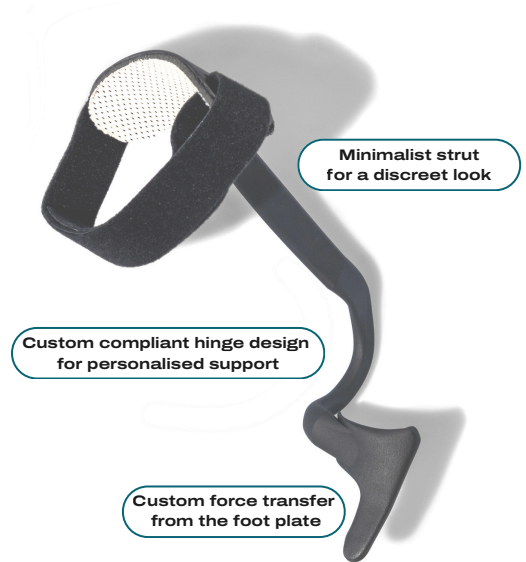
1 An optimal gait cycle is made possible by customising the compliant hinge's stiffness and pre-load to individualise the supporting force. The tuned stiffness stabilises the ankle at heel strike, enabling a controlled loading response. During the swing phase, the personalised force ensures consistent toe clearance.

2 Custom force transfer

2 Proper and comfortable force transfer is the foundation of the Rise's mechanism. The footplate is unique for each patient to create a moment by exerting comfortable pressure on the dorsum of the foot and lifting the shoe. By following specified contours of the dorsum of the foot on a 3D scan, the design ensures functionality while avoiding sensitive areas.

3 Ergonomic component modelling

3 The Rise remains discreet by minimising external volume strut positioning (away from skin). The Rise does not come in direct contact with the skin and also avoids the sensitive areas of the foot. The medial positioning of the compliant hinge further contributes to the discreet nature of the Rise.



General Specifications

<200g
weight

**Functionally
personalised** to the
patients needs

2-year
warranty on
the Rise,
subject to
terms and
conditions

Clinical testing at the
Amsterdam UMC with
approval from the
Medical Ethical
Testing Committee
(METC)

3D printed
with
orthopaedic
nylon
polymer

Compatible with most
lace-up shoes

Nothing inside
the shoe



Trial Walking

Next, you will have an appointment at an orthopaedic facility, where the healthcare specialist assesses your degree of muscle weakness. The specialist will use a demo Rise to assess your walking and evaluate your needs, lifestyle, and mobility goals to determine the best fit and stiffness.

Production

After Rezolve receives your 3D scan and order, we design and produce your personalized Rise, which is delivered to your orthotist in about two weeks.

1

Evaluation

Your Rise prescription usually begins with a rehabilitation doctor, orthotist or neurologist who assesses your condition, determines if a brace is needed, and whether Rise is the appropriate solution. The Rise is covered under basic reimbursed healthcare.

2

3D Scanning

If you and your orthotist choose the Rise, a 3D scan of your leg and foot is taken to design a perfectly tailored fit for optimal comfort and performance.

3

4

Delivery and Fitting

Once your Rise arrives, the orthotist fine-tunes it to your needs, then fits it and provides training on its use.

5

How you can get a Rise.



Who the Rise is for.

Clinical Indications

The Rise is intended for adult ambulatory patients with foot drop caused by dorsiflexor weakness, who retain sufficient plantarflexor strength to stand up on their toes and need little stance-phase assistance for stability or push-off.

Based on clinical expertise from orthotists, the Rise may also be a solution for patients suffering from the pathologies shown here.

Neuromuscular

- Ankle dorsiflexor weakness / drop foot (MRC: 0–4)
- Residual ankle plantarflexor strength (MRC: ≥ 4)
- Adequate quadriceps strength for stance stability (MRC: ≥ 4)
- Calf muscle tone: Modified Ashworth Scale ≤ 2

Functional

- Ambulatory (with or without walking aid)
- Sufficient motor control and balance to safely use a dynamic AFO
- Sufficient motor control to don/doff independently (putting on shoes, inserting AFO, tying laces)

General

- Age ≥ 18 years
- Able to understand and follow usage instructions
- Able to wear compatible footwear (below the ankle, low-cut, lace-up shoes. e.g. most sneakers)

Recommended Diagnostic Group (Common pathologies where Rise AFO may be recommended)

- Peroneal nerve injury
- Peripheral nerve damage (e.g., radiculopathy/herniated disc)
- Polyneuropathy
- Guillain-Barré syndrome
- Early-stage Charcot-Marie-Tooth disease
- Stroke
- Early-stage Multiple Sclerosis
- Incomplete spinal cord injury with foot drop
- Traumatic brain injury with foot drop

If in doubt please contact info@rezolvemedical.com

Contraindications

If any of the following contraindications are present, the Rise is not a recommended solution.

Skin and Sensory

- Pain caused by hypersensitivity or skin vulnerability at the dorsum of the foot (when pressure is exerted with thumbs by an orthotist)
- Pain when donning the Rise AFO
- Active wounds or high risk of skin breakdown at the dorsum of the foot

Spasticity and Motor Control

- Severe calf spasticity: Modified Ashworth Scale >2
- Severe toe extensor spasms (extensor digitorum longus (digits 2-5), extensor hallucis longus (big toe))
- Severe plantarflexor weakness (MRC: 0–3)
- Insufficient quadriceps strength (MRC: 0–3)

Orthopaedic/Structural

- Conditions requiring immobilisation of the ankle joint
- Severe ankle osteoarthritis, which is enhanced by pressure
- Severe equinus deformity
- Inability to fit appropriate footwear due to deformity (low-cut, lace-up shoes)
- Crouch gait pattern

Vascular/Metabolic

- Severe peripheral artery disease
- High-risk diabetic foot or severe diabetic neuropathy

Meet the Founders.

Rezolve Medical was founded in 2023 by Lennart Zielstra. After rehabilitating from an accident in the Austrian Alps in 2014, he was left with a drop foot and experienced first-hand the limitations of current ankle-foot orthoses on the market. After graduating from Delft University of Technology with a Bachelor's degree in Applied Physics and a Master's Degree in Biomedical Engineering, he set out on a mission to improve the quality of life for movement disorder patients like himself and founded Rezolve Medical.

In March 2025, Joris Zielstra joined the company as a full-time co-founder after previously serving as a part-time advisor. Since then, three more full-time employees have joined Rezolve. Together, they're working to revolutionise the market with the Rise.

Lennart

Joris



Lets talk!



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