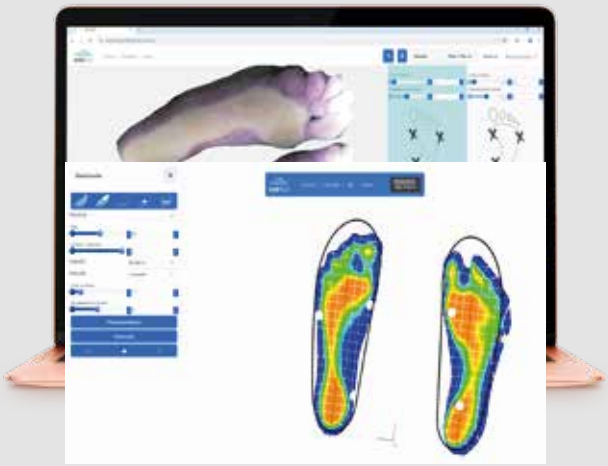
newfeet

3D ORTHOTIC INSOLE PRINTING SYSTEM

PROCUBE



NEWFEET Software

The Most Advanced Software for
3D Orthotic Design

- The software automatically generates a custom orthotic from a foot scan, streamlining the design and manufacturing process. For accommodative orthotics, the practitioner simply selects the desired firmness and proceeds with printing, producing a full-contact orthotic with maximum precision and an optimized workflow.

- The practitioner can make all the necessary corrections and adjustments to accommodate each patient's pathology, with precise control over density and mechanical performance in every area of the orthotic.

- The software updates automatically without any intervention from the podiatrist.

ORTHOTIC VISUALISATION MODES

The system offers different orthotic visualisation modes to facilitate the design process.

The Height Map allows variations in orthotic height and contour to be clearly identified, while Mixed Mode combines the height map with a square grid overlay that helps interpret the spatial distribution of the orthotic elements.

The orthotic can also be viewed in Transparent Mode or Wireframe Mode, allowing the internal structure of the printed filament to be visualised.

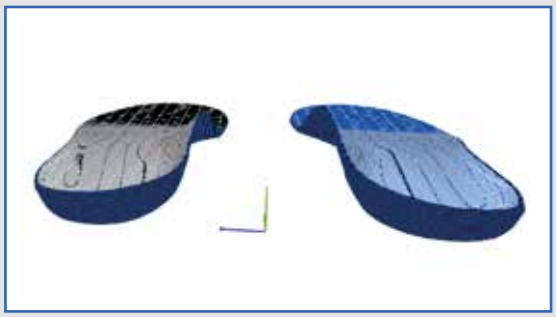
Height Map | Mixed | Transparent | Wireframe

PHOTOMETRIC LAST GENERATION

Take a photograph of the patient's shoe insole and the software automatically generates a shoe last based on the captured image, providing a perfect fit for both the patient's foot and their footwear.

ARCH AND HEEL CUP CUSTOMISATION

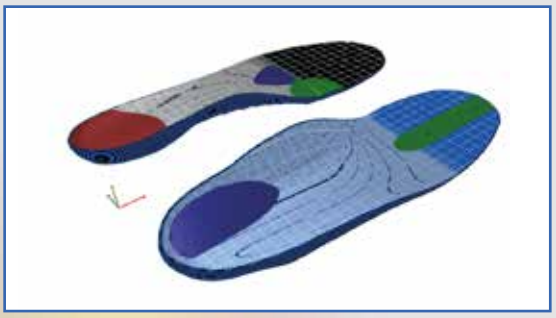
The software enables precise customisation of the arch and heel cup parameters, adapting the design to the specific needs of each patient. Arch height can be adjusted, start and end points can be defined, intersections can be modified, and heel cup height can be regulated. This ensures optimal support, fit and comfort.



PRONATION/SUPINATION CONTROL, HEEL LIFTS AND THICKNESS ADJUSTMENT

Precise pronation and supination control can be applied according to the patient's needs. In addition, orthotic thickness can be selected in millimetres, heel lifts can be added, and edge bevels can be modified to adapt the shape and finish of the orthotic.

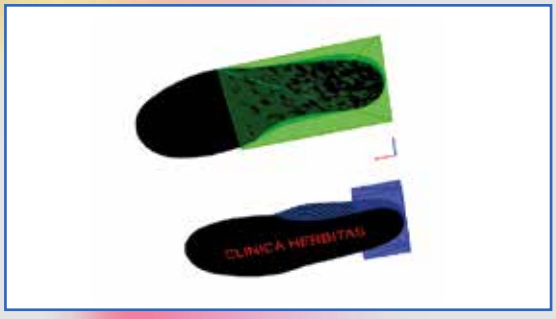
The software also supports forefoot and rearfoot wedges, the Blake Inverted Orthosis, and forefoot bevel adjustments, offering extensive design flexibility.



ADDITION OF PADS AND PRESSURE RELIEF FEATURES

PA wide range of pads and pressure relief features can be added and customised. Cushioning elements can be incorporated with individually adjustable firmness and density, while pressure reliefs, wedges, postural elements and French extensions can also be added.

This provides exceptional versatility in the design and customisation of every orthotic.



CUSTOM DENSITY ZONES

Custom density zones allow different areas of the orthotic to be personalised by independently adjusting their hardness and density. The clinic logo can also be incorporated, along with customised identifiers such as the patient's name, shoe size or other information.

In addition, the underside of the orthotic can be configured to be completely smooth and fully sealed, resulting in a cleaner and more uniform finish.

NEWFEET PROCUBE Printer

SMART AUTOMATION

- ✓ Dedicated automatic bed levelling programme
- ✓ Automatic nozzle cleaning

MAXIMUM PRECISION

- ✓ Filament run-out detection sensor
- ✓ High-precision bed levelling sensor

CONNECTIVITY AND CONTROL

- ✓ Wi-Fi and USB connectivity
- ✓ Built-in camera for print monitoring

PRINTING VERSATILITY

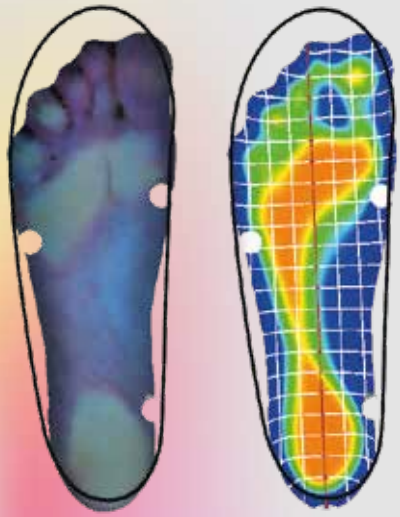
- ✓ Vertical and horizontal printing orientation
- ✓ Easy-removal magnetic heated build plate

NEWFEET Scanner with Textured Image Quality

The Newfeet scanner incorporates a processor that delivers faster image generation and enhanced image quality.

Thanks to its ability to scan phenolic foam impressions, the system provides practitioners with greater flexibility and convenience in their daily clinical practice. This functionality allows casts to be taken in different practices, clinics or locations and the foam impressions to be scanned later, eliminating the need to transport the scanner to every site.

This facilitates work across shared clinics, external consultations and multiple treatment centres. In addition, it optimises workflow efficiency and contributes to a faster, more convenient and more productive working process.



VISUAL PRECISION AND PLANTAR PRESSURE MAPPING

The system displays the patient's foot with its true surface texture, accurately capturing every detail. It also offers a plantar pressure map view with a colour-coded representation of pressure distribution.

All this information enables a more comprehensive and personalised assessment, optimising the design and manufacture of each orthotic.

NEWFEET Filament

WE ARE THE MANUFACTURER. Our filament is specifically engineered to meet all the mechanical requirements of podiatric orthotics. It offers unique properties that ensure outstanding durability, flexibility and comfort.

Using advanced technology and premium-quality materials, we ensure that every print is precise and meets the highest standards of design and functionality.

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AVAILABLE COLOURS

RIGID

Recommended for corrective and sports.

- *CARBON* 21.113.154

Exclusively for vertical printing

ESTANDARD

Recommended for everyday and comfort orthotics.

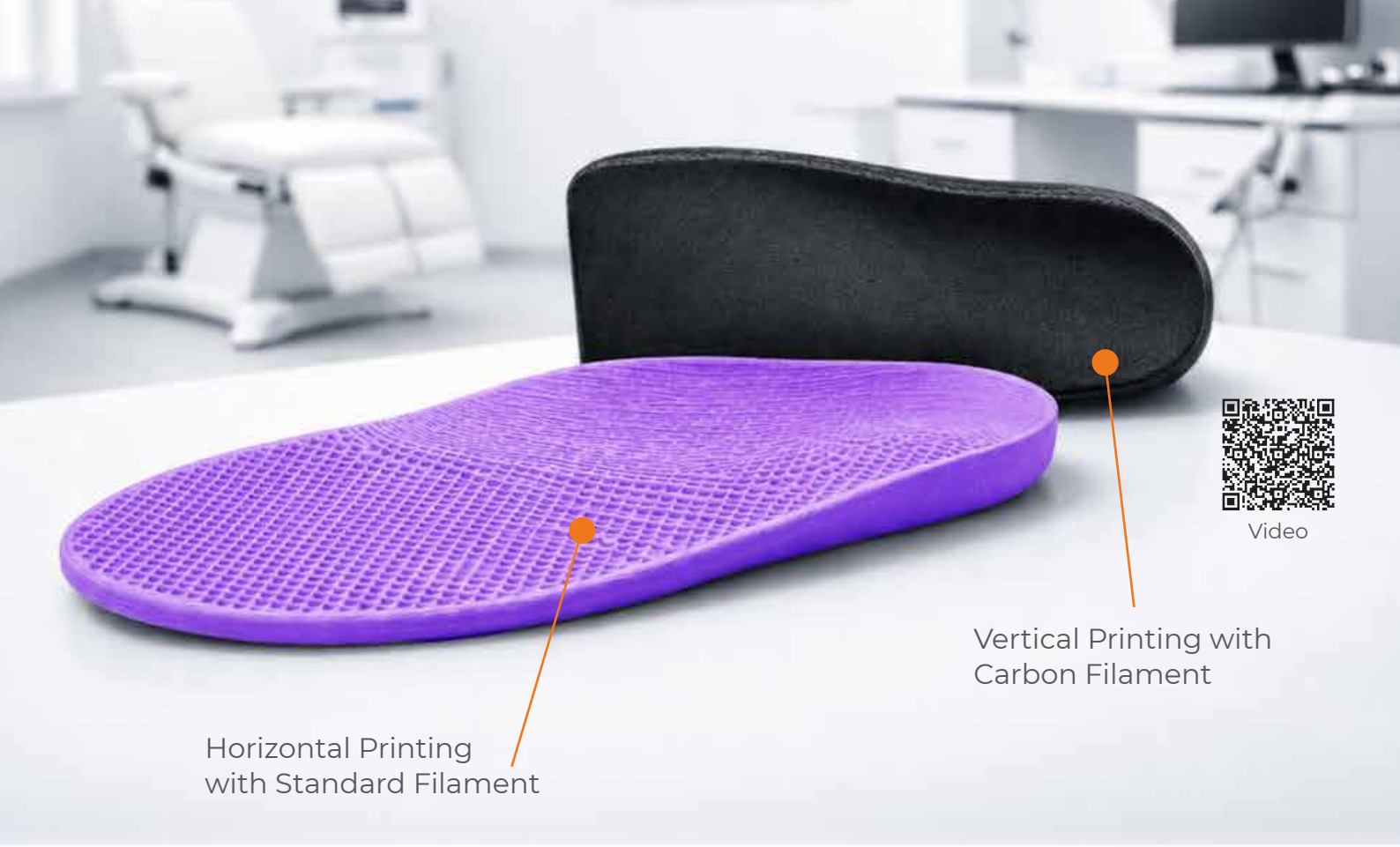
- *BLACK* 21.113.150
- *PURPLE* 21.113.151
- *ORANGE* 21.113.152
- *CAMEL* 21.113.153

HIGH STRENGTH

IPRECISION PRINTING

LIGHTWEIGHT MATERIAL

EXCELLENT TOP COVER ADHESION



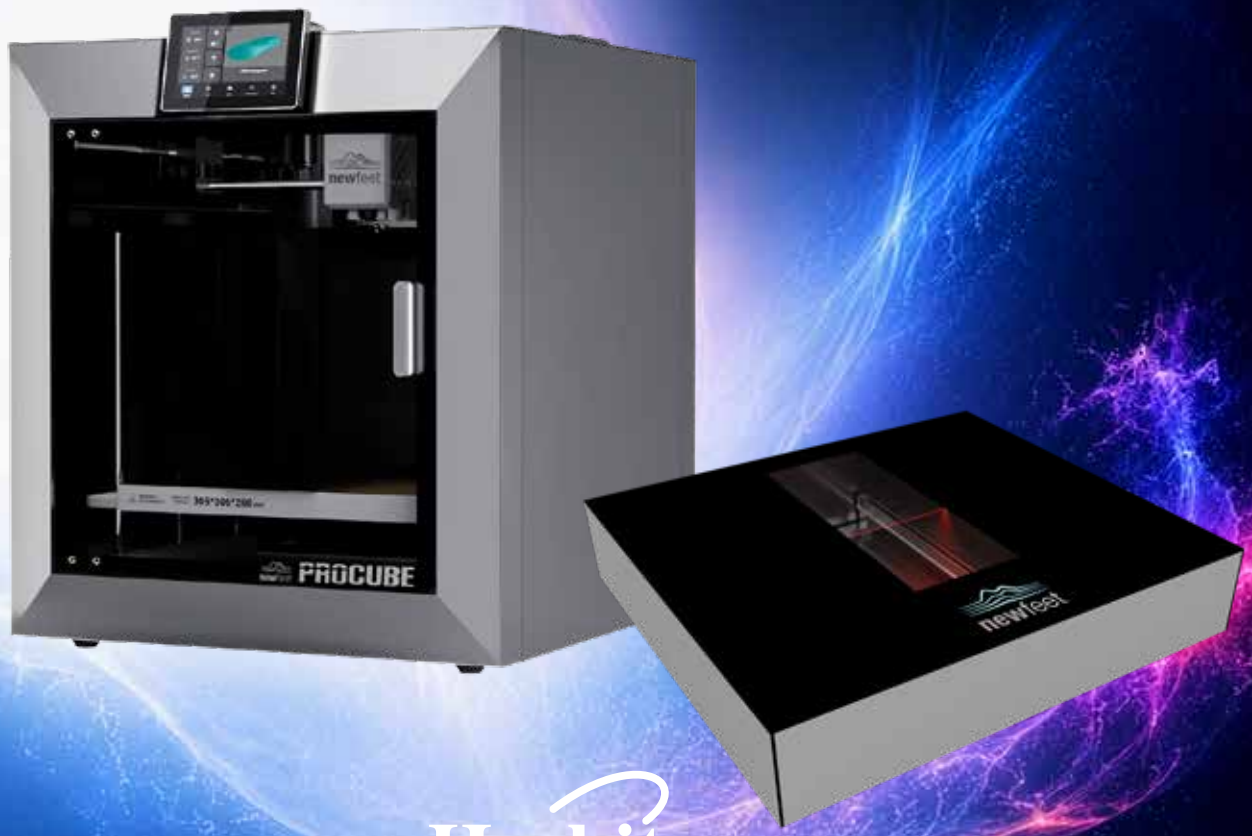
- Multiple Densities
- High Durability
- Suitable for Top Covers
- Flexibility / Support
- Outstanding Memory
- Breathability
- Can Be Polished
- Lightweight

TADDITIVE MANUFACTURING FOR HIGH-PERFORMANCE FOOT ORTHOTICS

3D-printed foot orthotics provide precise control over geometry and the mechanical properties of the structure. The integration of multiple densities enables targeted modulation of support, pressure relief and functional control zones, optimising biomechanical performance according to the therapeutic objectives defined by the practitioner.

The combination of lightweight construction, mechanical strength, elastic memory and breathability provides a durable and comfortable solution for patients of all ages. The surface can be covered and polished, allowing a high degree of aesthetic and functional customisation without compromising performance.

GREATER PRECISION FOR THE PRACTITIONER. GREATER COMFORT FOR THE PATIENT.



Herbitas
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STEP TO THE FUTURE

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ALWAYS BY YOUR SIDE

When you purchase the Newfeet 3D Printing System, you gain exclusive complimentary access to the Herbitas Training online learning platform.

There you will find carefully developed audiovisual resources created by specialised professionals to help you maximise your learning experience.

The platform includes practical clinical cases covering the treatment of a wide range of pathologies.

COMPLIMENTARY TRAINING INCLUDED

Monthly webinars provide insights into the best strategies and tools to optimise your clinical practice. Participants can ask questions and actively engage during each session, helping to enhance their knowledge and professional expertise.

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