CREATE LOADING AND RELIEF AREAS IN A TARGETED WAY.

FLEXIBLE AND FOCUSED.

The adaptive technology to customise foot orthotics.

schein orthopädie service
Germany since 1879

INCREASING QUALITY OF LIFE AND WELLBEING OF PEOPLE!
REQUIREMENTS CHANGE.
WE STAY FLEXIBLE.
Progress
We have been driving forward orthopaedic shoe technology for more than 140 years – through technological progress, innovative products and, not least, the best-possible support for healthcare technicians.

Flexibility and individuality
The focus of therapists, pedorthists and orthotists is on simple and time saving customisation. We are paying particularly close attention to those desires with new treatment concepts:
- with which you can treat patients individually, efficiently and easily,
- and with which you can ensure consistent quality of treatment,
- that raise the image of your company, skill and Expertise.

Efficiency and quality
Our treatment concepts are based on both the requirements of the user and demands in terms of efficiency and quality. You can quickly and conveniently adjust your foot orthotic blanks with flexspot technology and reproduce customised products.

Putting our best foot forward
We have now added another valuable feature to our Novaped product family, which already incorporate many user-oriented technologies:

Novaped flexspot – the adaption assistant – for medical orthopaedic use, allowing you to create contact and loading or relief areas in next to no time.
Novaped flexspot is composed of thin padding layers that can be delaminated. They are divided into pre-cut, anatomically designed zones. The individual zones can be removed layer by layer through heating.

This allows you to customise the top cover 3-dimensionally and create the contact or relief areas needed by removing the relevant pre-cut elements.
The pressure ratios
The removed elements with a thickness of 1 or 2 mm might look very thin, but they have a big effect. In the example shown, they have reduced the peak pressure values in the midfoot area (MPJ) by up to 55%.
This shows that Novaped flexspot achieves the desired effect in a targeted way through carefully measured pressure relief.

Hot air – as simple as it is clever
Simply remove the relevant zones from the individual material layers by heating them with a hot-air gun or in a hot-air oven (recommended for flexspot ADD). Thanks to the unique, reversible adhesive technology, you can reheat elements that have already been removed and use them again. No special tool or adhesive is required.
Individual treatment is literally in your own hands!

The materials
The multi-layered padding is made of cushioning, non-abrasive and temperature-insensitive polyurethane (PU). The properties of the PU materials are not altered by heating. The high resilience and permanent elasticity ensure a reliable cushioning.
These characteristics mean the material layers are simultaneously thin and effective.
LESS IS MORE: SUBTRACT TO PROVIDE RELIEF.

Novaped flexspot SUB

The relief principle
Novaped flexspot SUB is positioned where the pressure peaks on the foot are represented. The removal of material at specific points reduces the pressure on overloaded structures. The 1 mm thick material layers allow the pressure to be finely adjusted in line with the principle of ‘as much relief as necessary, but as little as possible’.

Heat and remove
The padding is composed of two PU layers, each 1 mm thick, and an OnDry cover. The anatomical pressure zones of the foot are pre-cut into the padding. The individual material layers in the zones can be removed by heating. This means pressure relief of 1 mm or a total of 2 mm can be provided by removing the relevant pieces.

Heating the padding sections with a hot-air gun
Heat the padding materials with a hot-air gun for approx. 15 seconds at 400°C/752°F from a distance of 10 to 15 cm. You can then remove the desired elements.
The relief principle

TOES I–V RELIEF ZONES

Padding layer 1 (green):
1 mm p² absorb

Padding layer 2 (black):
1 mm p² resorb

Cover (black):
OnDry top layer

HEEL / PLANTAR TENDON RELIEF ZONE

Cover on the upper side:
Perforated OnDry cover, black

POSSIBLE AREAS OF APPLICATION

- Plantar fasciitis
- Hallux rigidus
- Hallux valgus
- Mallet toe
- Claw toe
- Metatarsalgia
- Morton’s neuroma
- Pes plano transversus
MORE IS MORE: ADD TO PROVIDE MORE CONTACT AND LOADING.

The ‘more loading area is less pressure’ principle
With Novaped flexspot ADD, large areas are removed from the padding. The effect comes from those that remain. The areas that remain in place provide additional stimulation and add to the supporting function of the foot orthotic base used. The material can be ground at the edges without difficulty, allowing optimal adjustment. Areas of the foot are given effective support and pressure distribution is optimised.

Heat and remove
The padding is composed of a 3 mm thick p² absorb layer (green), a 2 mm p² resorb layer (black) and an OnDry cover (grey). The green padding is pre-cut into the common supporting areas of the foot. Those that are not needed can be easily removed by heating. Thanks to the reversible adhesive connection, the elements can also be repositioned as needed.

Heating the padding sections in a hot-air oven
Place Novaped flexpot ADD in a hot-air oven for approx. 2 minutes at 130°C/266°F. The required elements can be easily removed or repositioned.
The contact principle

TOE CONTACT ZONES

Padding layer 1 (green):
3 mm p² absorb

Padding layer 2 (black):
2 mm p² resorb

Cover (grey):
OnDry top layer

MEDIAL HINDFOOT CONTACT ZONE

Cover on the upper side:
Perforated OnDry cover, grey

POSSIBLE AREAS OF APPLICATION

• Pes cavus
• Pes valgus
• (Flexible) flat foot
• Fallen arches
• Pigeon toes
• Splayfoot
IT COULDN’T BE EASIER!

Novaped orthotic base variants
The padding is not the only area where we provide a solution for every requirement. The high level of customisation naturally applies to the whole treatment concept. All base models are available for Novaped flexspot, to suit any wishes and needs.

Novaped flexspot ADD processing

Unpack
Get to grips with the creation of pressure points on the pre-cut zones of the padding.
**Novaped flexspot SUB processing**

01 **Unpack**
Use the pre-cut anatomical zones to precisely locate the areas on the padding layer where you want to provide relief.

02 **Customise**
Reduce the relief zones as needed and in layers of 1 mm or 2 mm.

03 **Finalise**
Affix the Novaped flexspot SUB sole to a base from the Novaped range, with an overhang of 2 mm.

02 **Customise**
Remove all non-relevant pieces from the padding layer and achieve targeted support or correction of the foot with the remaining elements.

03 **Grind**
If required for a contouring surface design, grind the edges and junctions of the remaining pads.

04 **Finalise**
Affix the Novaped flexspot ADD sole to a base from the Novaped range, with an overhang of 2 mm.
**THE FAST-ACTING SOLO PERFORMANCE**

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**Novaped flexspot SUB SOLO**

**For basic treatment**

The Novaped flexspot SUB model is also available in a version for a simple and effective treatment option: Novaped flexspot SUB SOLO. The padding design, the pre-cuts and the individual width adjustment are almost identical. However, the Novaped flexspot SUB SOLO is not affixed with an orthotic base, but simply placed into the shoe as an flat-bed insole.

**The same processing: heat and remove**

The padding of the SUB SOLO version is composed of three PU layers, each 1 mm thick, and is pre-cut in the pressure-relevant areas. 1 mm or 2 mm of material layers can be removed as needed, by heating.

**Heating the padding sections with a hot-air gun**

Heat the padding materials with a hot-air gun for approx. 15 seconds at 400°C/752°F from a distance of 10 to 15 cm. You can then remove the desired elements.
For basic treatment

**Adjustment of the forefoot outline**

**Toes I–V Relief Zones**

**MPJ I–V Relief Zones**

- Padding layer 1 (green): 1 mm p² absorb
- Padding layer 2 (black): 1 mm p² resorb
- Padding layer 3 (beige): 1 mm p² resorb

**Cover sole padding**

1 mm p² resorb, PiGrecco covering layer (beige)

**Possible areas of application**

- Plantar fasciitis
- Hallux valgus
- Mallet toe
- Claw toe
- Metatarsalgia
- Morton’s neuroma
- Pressure sensitive forefoot ailments

Cover on the upper side: PiGrecco cover, beige
The efficient processing and special material properties are the foundation stones of the Novaped flexspot concept for targeted contact, loading or relief.

**THE PROCESSING**

- Time saving
- Reproducibility
- Simple to use
- No specific tool / no adhesive required
- Various possible applications

**THE MATERIAL**

- Cushioning but non-abrasive multi-layered PU padding
- Not temperature-sensitive
- Multi-layered pressure relief or added contact
- Reversible adhesive connections
- Very high restoring force

Advantages at a glance
Novaped flexspot

Novaped flexspot SUB

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Novaped flexspot ADD

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Novaped flexspot SUB SOLO

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Novaped orthopaedic foot orthotic blanks*

Novaped S90 base

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Novaped Plateau base

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Novaped S90 Carbon base

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* Many more foot orthotic types possible on request