



3BOrthotics.ir



WE CAN HELP !

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Introduction

3B orthotics is your one stop solution to all of your foot orthotic needs. Whether your patient needs a professional grade corrective insole or a custom to foot type prefabricated foot orthotic with modifications, we have the solution.

Our highly skilled laboratory technicians take special care in fabricating prescription orthotics which meet the highest level of standards. Each patient's orthotics are designed from one's professional prescription specifications. They are built to meet the individual biomechanical and lifestyle needs of patients.

Providing medical services to individuals without considering their geographical distances is one of the aims of physician's community which actualizes the fair distribution. 3B orthotics has attempted to reach this goal. How?

Contact:

Please call any member of our team on:

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Bionics Innovations

Biomechanical Assessments

Best Quality & Services



Procedure

Custom made insole

From the beginning, all patient information and foot scans have been reviewed by experienced biomechanical evaluators, before step of insole fabrication . Our professional evaluators assist diagnostic, considerations, prescriptions choices and device selections. We thoroughly review all the facts, data, scans and casts, since they are required in our mutual effort to produce the most therapeutically effective orthotics for each patient.

Evaluation

As you know, examination should be done by an expert physician and therapist.

Services are provided in two ways:

1) the absence of physician or therapy treatment team for examination

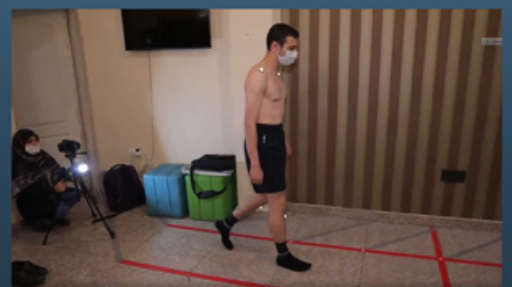
Phone call and connection to therapist via social applications for a thorough and accurate examination

The possibility of the installation of the clinic app, filling in the form and the sending of specified information

2) the presence of physician and therapist for examination

The installation and membership in the APP of 3B orthotics

- Filling in the required information about foot orthoses
 - Taking a 2D picture with the mobile phone, according to the given instructions and sending the picture via application
 - 2D and 3D scan and sending it via application
- Casting of the patient's foot and sending the mold to 3B with post

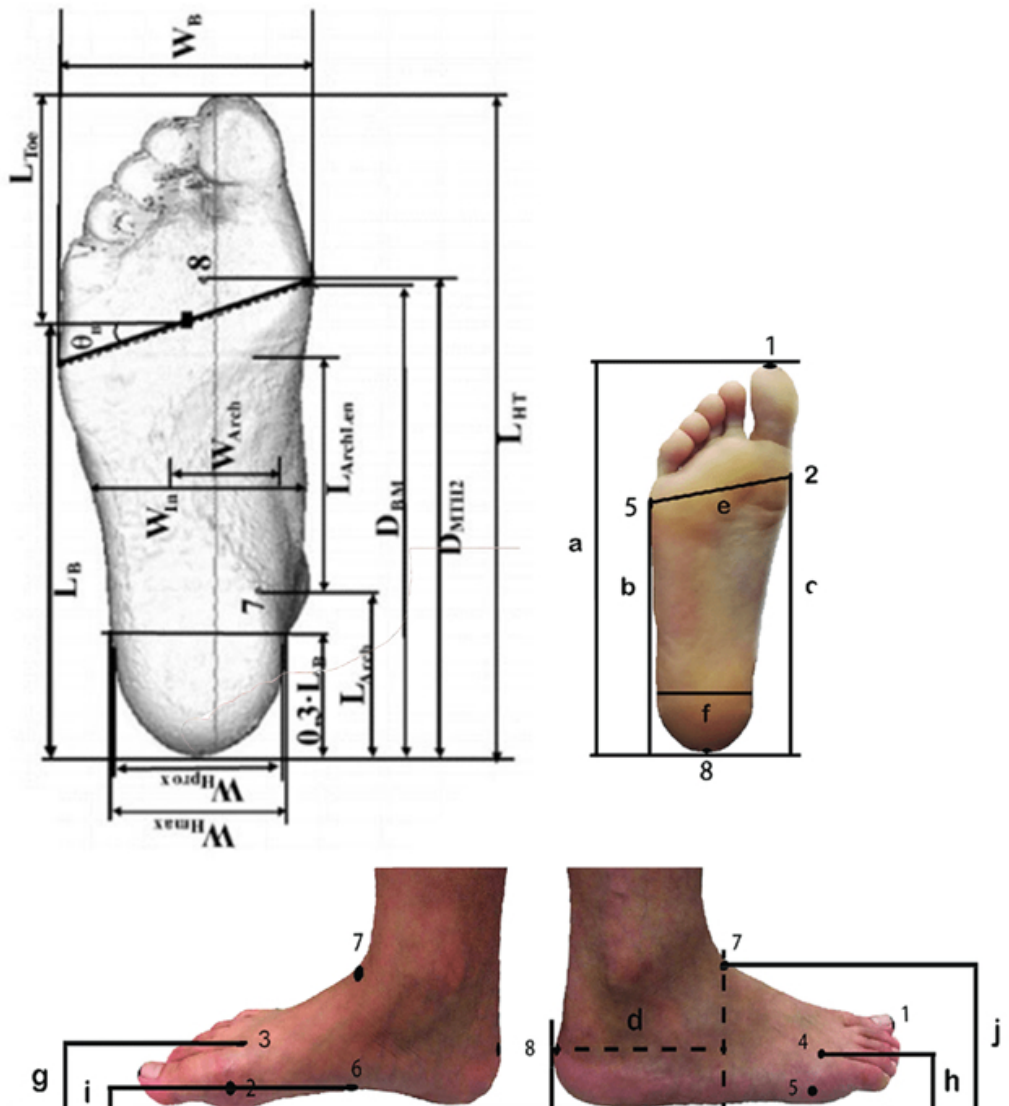


Designation

Different software programs are used for arriving at the appropriate mold of individuals :

- Software programs which measure the foot dimensions from the sent 2D pictures and 2D scans
- Software programs which measure the dimensions of 3D scans
- Software programs for the designation of orthosis mold
- Software programs for cutting or printing the molds

**Orthoses Designed To Fit The Activity
As Well As
The Patient!**



The making and finalization of mold

Since the two techniques of AM and SM are acknowledged to be defective, 3B uses a combination of these techniques to make molds and orthosis. In this way, it removes the defects, increases the quality and accuracy of products and decreases the prices.

Our functional orthotics are manufactured using thermoplastic in 4-1mm control options. This material provides enough rigidity to support the foot, while simultaneously offering the foot the right amount of flexibility to properly absorb ground reaction forces.

The insole is produced on the positive model (different materials are heated and are placed around the positive model) or the orthosis is produced on the negative mold (different types of composites).

We are so confident in the durability of our thermoplastic orthotics, that they are guaranteed for a lifetime against breakage.

After the construction of the main structure (frame) of the orthosis is the step of pad placement and the final preparation of insole, which is done according to the person's disorders, activities and shoes. this step is also completely custom-made.



INSOLE FOR LLD

Customized Prefabricated Foot Shell / Insoles Orthotics

Our experience in the field of lower extremity biomechanics and foot orthotic manufacturing has made it possible to create one insole for multiple pain conditions, posture-related problems, prevention support and enhancement of sports performance.

In the following section, you will find a diagram displaying the standard shell grinds which 3B offers, applied to types of foot.

The following 3B materials spectrum aids you in your material choice.

This spectrum is designed to give you a basic overview of the level of control which each material provides.

Choice of manufacturing methodologies is purely down to personal preferences. However,

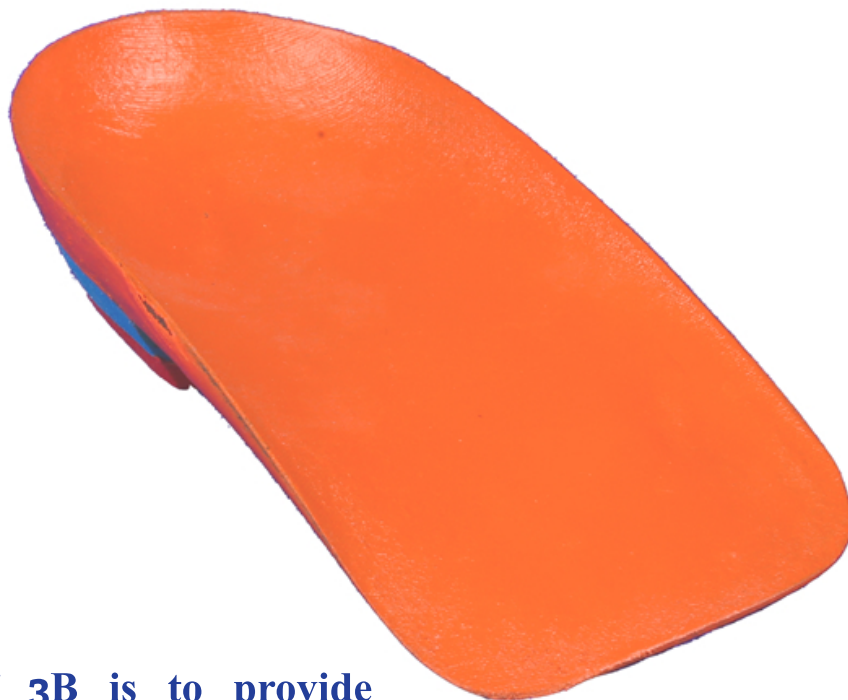
below are some pointers which may aid in your decision process:

Advantages:

Each separate component of the products can be easily modified if needed. A large variety of shells are available.

Disadvantages:

These shells grinds may not be 100% accurate due to the handmade processes.



“The basis of 3B is to provide corrective support, not just passive support, to your feet while wearing our insoles. Because most foot pain conditions happen due to improper foot positions.”

Products

Standard

Shell material: Polypropylene

Ideal for everyday activities, most men's and ladies walking, work boots and lace-ups and casual footwear, slip-on footwear with moderate to deep heel area depth.



Light Fit

Shell material: Carbon Fibre

Light and ultra slim, the Light fit offers unrivalled control levels, whilst enabling friendly shoe fit. all lyte fit shells turn out to be standard with a lifetime guarantee. Light and ultra slim and Lifetime shell guarantee.



UCBL

Shell material: polypropylene

The gold standard shell for maximum control of Subtalar joint function. It has a deep heel cup and a high medial and lateral flange.



Heel Pain

Shell material: polypropylene

The gold standard shell for control of heel spur pain



Gait Plate

Shell material: polypropylene

A functional shell style modified to induce out-toeing or in-toeing in children





An insole plays a central role in the management of foot pain.

Golf insole

Control Options:

2mm semi-flexible

3mm semi-rigid

4mm rigid

Patient Selection:

- Golfers who require comfort and support while walking the golf course.

Standard Cover: Sulcus & Full Length(3mm microfiber top cover)



Court insole

Control Options:

2mm semi-flexible

3mm semi-rigid

4mm rigid

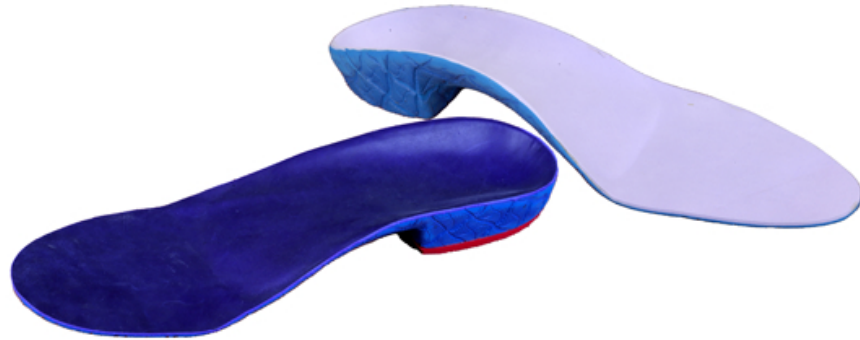
Patient Selection:

- Specially engineered for the better performance of the court player.

Standard Cover: Sulcus and Full Length –2mm top cover with a microfiber cover.

Special Features: Extrinsic rearfoot post (post with 2mm foam heel lift).

Designed to take pressure off the Achilles Tendon, promote greater ankle dorsiflexion and to increase shock absorption.



Athletic insole

Control Options:

2mm semi-flexible

3mm semi-rigid

4mm rigid

Patient Selection:

- Athletes and other active patients who require moderate to maximum biomechanical control.
- Designed to prevent sport-related injuries by protecting against pressure and impact shock.



Soccer insole

Control Options:

2mm semi-flexible

3mm semi-rigid

4mm rigid

Patient Selection:

- Soccer players who require moderate to maximum biomechanical control.
- Designed to prevent sport-related injuries by protecting against pressure and impact shock.

Standard Cover: Sulcus and Full-Length 2mm microfiber top cover



Running insole

Control Options: 2mm semi-flexible

3mm semi-rigid

4mm rigid

Patient Selection:

- Specially engineered for the better performance of the runner.

Standard Cover: Full Length (3mm top cover)

Special Features: Extrinsic rearfoot post (with 3mm foam heel lift).

- Designed to take pressure off the Achilles Tendon, promote greater ankle dorsiflexion and to increase shock absorption





**The fancy of the moth's effort
in sparing not its own life
behold and laughing
consuming like the candle be .**

**In glance - playing , is the
perfection of heart -
ravishingness and beauty of
beloved ones
Of the crowd of the rare ones
of the age , in the art of
viewing and comprehending
others be .**

Hafiz

Dress Orthotics

Designed to provide support and comfort for your patient's feet while in formal shoes.

Shoe Selection: Slip-on or narrow-cut dress shoes

Control Options: 2mm semi-flexible

3mm semi-rigid

4mm rigid

Patient Selection:

- Patients who require mild to moderate biomechanical control in their narrow dress shoes.
- Designed primarily for women.

Standard Cover: 3/4 Length – A 1mm top cover.

Sulcus or Full Length – A 1mm top cover.



shoe Selection: High-heeled shoes or dance shoes

Control Options: 2mm semi-flexible

3mm semi-rigid

4mm rigid

Patient Selection:

- Patients who require mild to moderate biomechanical control in their high-heel shoes.

Standard Cover: Full Length – A 1mm top cover.



"3B manufactures all of its products from the highest quality shell materials and give patients complete satisfaction."

Modifications

Kirby Skive

A modification made to the medial plantar surface of the heel at casting to result in increased control



1st Ray Cut-Out

A cut-out taken from the high point of the arch diagonally across to the 1st/2nd interdigital space. If required, this modification can be made, according to different specifications. The main use of the adaption is to allow space for the 1st ray to plantarflex.



1st Met Cut-Out

A 45° cut to the orthotic shell under the 1st metatarsal-phalangeal joint at the distal-medial aspect of the orthotic shell. This is designed to allow space for the 1st metatarsal to plantarflex.



Heel Raise

An increased layer of material added to the rearfoot post to address limb length discrepancy.

The post can also be added bi-laterally to address equinus.



Heel Cup Height

The depth of the heel cup can be used to gain more/less control. Heel cup height can be customized to meet our patients' needs. Please note that a device cannot be cut narrow with a deep heel seat.



'Out Toe' Gait Plate Extension

An extension to the lateral side of the device, up to the apex of the fifth toe, to promote an out-toe gait.



‘In Toe’ Gait Plate Extension

An extension to the medial side of the device, up to the apex of the hallux to promote an in-toe gait.



Cut Orthosis Narrow

The shell is ground narrower along the medial and lateral borders of the device to aid fitting in tighter footwear.



High Medial Flange

A modification to the height of the device on the medial side. Starting at the heel cup with an apex near the navicular and finishing just before the 1st metatarsal head. The uses of this modification is to control navicular drift, treat posterior tibial dysfunction and to increase overall control.



Lateral Flange

A deepening of the lateral border of a device, no higher than just below the malleolus. The main use of the modification is to alleviate lateral slippage and/or offer lateral stability.



“If you require a different shell model, please don’t hesitate to contact our evaluation team for more assistance.”

Conditions

There are conditions for common foot pathologies and recommended prescription options.

CONDITIONS	PRESCRIPTION OPTIONS
Metatarsalgia	Met pads or met bars
Heel Pain	Heel pads
Plantar Fasciitis	Deep heel seat, good control
Heel Spur	Heel spur pads
Achilles Tendonitis	Heel raises and heel pads (if severe)
Hallux Valgus	Low bulk toe area, good rearfoot control
Pes Planus	Good control
Pes Cavus	Shock attenuating device
Rheumatoid Arthritis	Shock attenuating device
Equinus	Heel raises and stretching programme
Post Tib Dysfunction	Deep heel seat, high medial flange, Kirby skive
Fallen Arches	Good control and valgus pads
Hallux Rigidus	Mortons extension
Capsulitis	Valgus pads and met pads
Morton Neuroma	Met pads or neuroma pads
Sesamoiditis	Balance pads
Haglund's Deformity	Good control
Charcot	EVA with accommodating midfoot dropt section
Shin Splints	Shock attenuating device, arch infill or padded cover
Tailors Bunion	Moderate control
Tarsal Tunnel Syndrome	Good control
Ilio-Tibial Band Syndrome	Pronation correcting device, possible padded cover
Freiberg Infraction	Met pads
Hallux Limitus	Met cut out
Severs Disease	Good pronation control, soft heel raise and possible heel pad

A low-angle, close-up photograph of a person's legs and feet as they run through a puddle on a paved path. The person is wearing dark shorts and athletic shoes. The right foot is captured mid-air, showing the tread pattern of the sole. The left foot is planted in the puddle, creating a large splash of water. The background is a blurred outdoor setting with greenery and a building.

ENHANCE YOUR LIFE
with
OUR
FOOT
ORTHOSES!

3B Protect

When patients receive their orthoses, they may quickly rely upon their assistance to control biomechanical function and to protect their health against enormous amounts of impact placed daily on the body. It is not surprising therefore that over **80%** of devices will need to be replaced, altered or adjusted within the first two years of their manufacture.

Protect is a warranty scheme exclusive to 3B, which gives the patient the peace of mind that their devices are protected against the possible cost of replacement and/or alteration for a **1 year period**.

The Protect warrant scheme covers the orthoses for:

Outgrowth:

Protect offers one replacement pair of outgrown orthoses per two year agreement period, before the patients' eighteenth birthday.

Replacement:

Protect covers for lost or stolen orthoses by storing the positive impression profiles of every subscriber for the full two year period. There is a surcharge made for replacements which is significantly lower than the cost of purchasing a new pair.

Discount Scheme:

All patients covered by the protect scheme will be entitled to **30%** discount on any additional purchased pairs.





**Your ankle, knee, hip or
low back **PAIN** could be
coming from your
FEET !!!**

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