



EDSER®

Innovation
in every pair

Custom Made Orthotics



EDSER®

In 2000 Edser Labs SL was founded

in Barcelona, Spain and began offering an orthotic fabrication service to others practitioners.



20 years later, Edser Labs continues

to lead the way in the field of custom made orthotics offering innovative technology, the highest quality materials, and modern manufacturing methods.



For more than 10 years Edser has been the largest orthotic manufacturer in Spain.



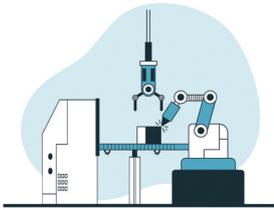
While expanding its market reach by adding distribution

to America, The United Kingdom, Norway, Malta, Romania, Israel, New Zeland and Australia.



With the addition of 3D Laser scanning and 3D Printing

capabilities, Edser has also expanded its product portfolio to include 3D Printed insoles and AFOs.



In 2006, Sergio introduced Edser Labs

and its line of Custom Made Orthotics and 3D scanning technology to the US market, opening a distribution center in Miami, Florida.



In 2014, Edser Labs was introduced to the British market

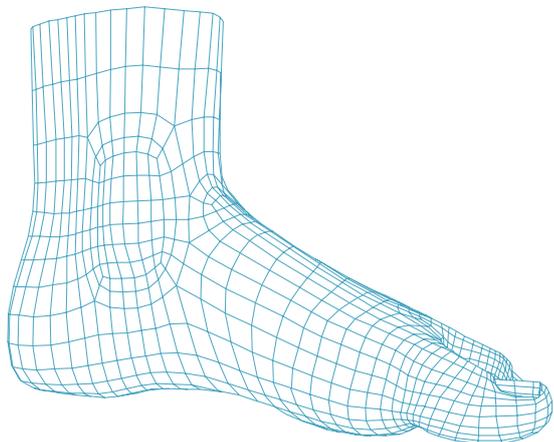
when opened the London branch.



In 2019 Edser's team joined Israel to formalize a distribution

and present their line of 3D printed custom orthotics and AFOs to the Israel market at Israel's annual rehabilitation conference.





- 1. Our laboratory**
- 2. Plantar orthotics styles**
 - 2.1 Line for dress / moda
 - 2.2 Line for sport / performance
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1.

Edser Orthotic Labs

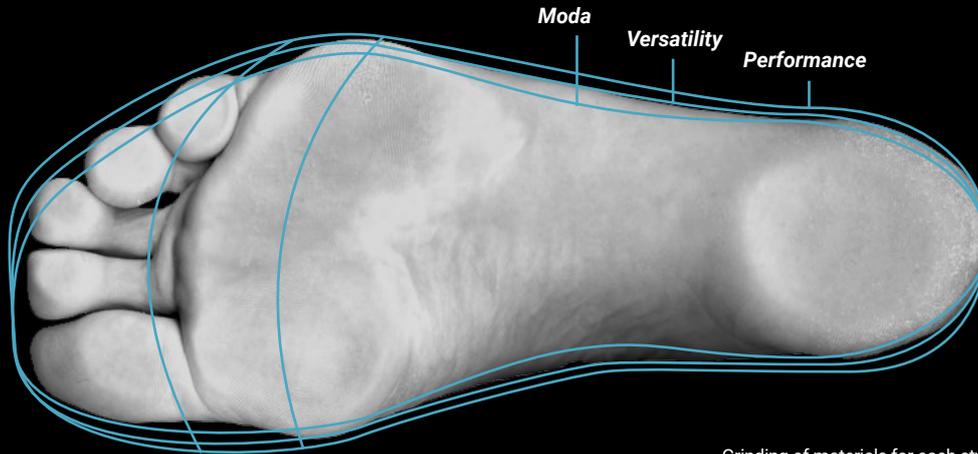
Edser holds over 30 years of laboratory and clinical orthotic experience. We take great pride and care in the individual design of each orthotic. Combining the traditional art of orthotic crafting with innovative fabrication methods and materials, Edser Labs produces a superior quality product for high patient satisfaction and results.



Edser technology

For Over 15 years Edser Labs has employed CAD/CAM technology for the unique design and fabrication of orthotics. Scans taken using various cutting edge technologies, like PAW 3D (laser scanner) , iScan 3D (iPad) and wikyscan (iPhone true depth sensor) are used as a base to design our insoles using CAD software to guarantee a high level of precision in the prescriptions and corrections requested by our clients. Then diverse manufacturing processes are applied to manufacture our insoles, including 3D printing, CNC Milling and Thermo molding as well as manual techniques to craft accommodations, posting and coverings.

iScan 3D (iPad), Edserplate, as well as the PAW 3D are available to all of our clients to be used on their consultation to obtain a direct volumetric foot scan of their patients.



Grinding of materials for each style of plantar orthosis.

2. **Styles:** Plantar Orthotics

Edser Labs provides an easy method to prescribe orthotics specific to patient's activities and footwear while offering all orthotic shell options to meet the needs of their condition and foot structure.

In the following pages you will find the detailed description of Edser Labs' technical protocols for each of our Orthotic Lines. Each line differs by fit and function. Above is an illustration of the shell grind for each orthotic style.

Versatility
Casual line

Performance
Sport Line

Moda
Dress line

Specials
UCBL
Gait Plate
Diabetic

2.1

Dress line

A functional slim shell style designed for low profile footwear.



Technical description: 5 mm heel cup.

- Narrow shell grind · Intrinsic forefoot and rearfoot post.
- Sulcus length · Black leatherette top cover (default).



Footwear: Suitable for most women's slip-on and dress shoes with heel under 1 in. Men's loafers and low-volume dress shoes.

Insoles adaptable to high heels

A unique and sophisticated design for those nights where you want to wear "those shoes".



Extra narrow

Technical description: The extra grinding of the width reduces the width of the plantar orthosis 2-4 mm extra.

Footwear: This option is mostly used for high-heeled shoes for women who tend to require a plantar orthosis that is much narrower than the foot.

Flex Heel

Technical description: The materials of the device are replaced in the rearfoot by a thin pad to allow the heel to flex in different platform shoes or high heels.

Footwear: This device is specially designed to adapt to high-heeled shoes.

Cobra

Technical description: The materials are eliminated in the area of the lateral and the center of the heel, creating an "s" formed in the rearfoot. This cut in the materials helps the heel to have a smaller support and gives more flexibility to fit better in a women's heel shoes, however, offers less control due to less contact with the bottom surface.



Fashion Orthotics
Extra narrow



Fashion Orthotics
Flex Heel



Fashion Orthotics
Cobra

2.2

Sport line

A fully functional style with basic materials designed for maximum control of movement, in a wide range of sports activities.



Technical description: 15 mm heel cup depth · Wide grinding of base materials · Intrinsic forefoot posting · Rearfoot extrinsic posting with neutral heel support plate · Full length · 3 mm black neoprene lining (default) or automatic addition of a PPT padding 1.5 mm, under the EVA or synthetic leather lining.

Footwear: Recommended for sports shoes for men, women and children with removable insoles. If the practiced sport requires a less voluminous template, such as soccer boots, it is important to specify the type of sport in the order.



Performance
EVA



Performance
Graphite



Performance
3D print

2.3

Casual line

A functional standard width shell style appropriate for the majority of daily activities and everyday shoe styles.



Technical description: 12 mm heel cup. · Regular shell grind.
· Intrinsic forefoot post · Neutral extrinsic rearfoot post · Full length · Marble black EVA top cover (default).



Footwear: Most men's and women's walking, hiking, work boots, lace-up casual footwear and some slip-on footwear with a removable insert or moderate to high depth heel seat.



3.

Special plantar orthotics

3.1

For diabetics

A full contact accommodative device designed for management of the diabetic foot.



Technical description: 12 mm heel cup · Full width shell grind · EVA
1 mm bottom cover for increased durability · Beige Plastazote top
cover (Default).



Use: At risk diabetic foot and other conditions that cannot tolerate a rigid device such as arthritic and geriatric foot. Fits best in walking, athletic and extra depth footwear.



3. 2

Children

Materials with functional styles normally used for children but also available for any size of foot.



Technical description: Full width shell grind · Intrinsic forefoot · Neutral extrinsic rearfoot post. · Long / Short Shell · Fire EVA top cover (default for children).

Materials:

Polypropylene: 2 mm, 3 mm, 4 mm, 5 mm

EVA: Semi hard (SH) 34-40 · Hard (H) 41-47 · Very hard (VH) 48-55 ·

Dual density Front and mid-foot 35 · Rearfoot 55.

3D PA 12: 2 mm, 2.5 mm, 3 mm, 3.5 mm, etc.

3. 2.1

UCBL: A functional material designed for maximum control. Manufactured with a 25-30 mm cup, medial and lateral flange.

3. 2.2

Gait Plate:

A style designed to encourage inversion or eversion of the foot. Manufactured with a 15-20 mm heel cup depth.

In-Toe: Designed to induce the foot to go inside.

Out-Toe: Designed to induce the foot to the outside.

Specials
UCBL



In-Toe
Gait Plate



Out-Toe
Gait Plate



4.

Footbeds

Footbeds made to measure for your favorite sandals

We manufacture the shape of our Footbeds so that they adapt to sandals with removable insoles. Our custom Footbeds can be exchanged. Wear your footbeds with your favorite clogs and sandals and exchange them between the different models of the same brands.



5.

eFlops

Sandals line within a wide range of sophisticated footwear

A model of sandals with a sophisticated fashionable design, customized to offer a comprehensive solution for the health of your feet.

Designed and produced by a group of Spanish specialists in the design of handmade footwear. Available in a variety of designs and colors in high quality leather, adapted to the taste of each patient, adjustable to guarantee the perfect efficacy of your orthopedic treatment.

Made based on a 3D scan, or through any traditional mold, our eFlops offer the perfect combination of an orthopodological treatment with a fashionable design.



Sizes
Men

EU
41-46

UK
7-11

USA
10-13,5



Sizes
Women

EU
36-41

UK
4-7,5

USA
6,5-11

Male
model
Garraf



Colors



Male
model
Bogatell



Colors



Male
model
Terramar



Colors



Female
model
Kalima



Colors



Female
model
Balís



Colors



Female
model
Bellamar



Colors



● Grey

● Brown

● Blue

● Beige

● Pink

6.

Flopthotics customized

Enjoy the summer with style and health

During the summer the comfort of moving the toes freely when wearing flip flops, could transform into sore feet and wounds. Everyone likes flip flops, but the lack of support they provide is not healthy for feet, knees, hips and back. EdserLabs® has found the solution, so that both you and your podiatrist can be satisfied, thanks to our customized Flopthotics, which provide your feet with the necessary support and correction.

Our custom Flopthotics are recommended in combination with the use of custom orthotics in daily and sports shoes.

We provide you with what you need for the hot summer days. Now all custom orthotics users can enjoy their personalized Flopthotics in summer. Enjoy your flip flops!

1 Choose your sole color



Black, Blue, Lime Green, Red

3 Choose your top cover



Marbles: Black, Green, Blue, Fire, Pink
Perforated: Black, Gray, Blue, Red, Orange, Yellow

2 Choose your base color



Black, Blue, Pistachio, Orange, Red

4 Choose your strap



· Jamaican colors-cloth
· Rubber Black
· Rubber White
· Black cloth
· Nobouck (Black)

5 Choose thickness

Thin: 2 mm
Regular: 5 mm

AFO's

3D Printed PA12

Dynamic AFO

Designed to mitigate the effects of a painful muscle and compromised gait fluidity.

- Medial or lateral crossbow option to accommodate joint deviations
- Adjustable Velcro Strap
- Optional

AFO Dynamic Double Crossbow

Designed to mitigate the effects of compromised dorsiflexion muscles.

- Reduced calf contact area, for greater comfort

Articulated AFO

Designed to reduce the lateral deviations of from alignment which compromise dorsiflexion movements.

- Adjustable Velcro Strap
- Optional motion restriction per prescription

Balance Brace

Designed to reduce the risk and incidence of falls, through stabilization of the ankle.

- Adjustable Velcro Strap
- Rear Positioning stabilizer to maximize balance and stability

Supramaleolar Orthosis

Designed to reduce mediolateral and rotational instability of the foot, allowing dorsiflexion movements.

- Rear Positioning stabilizer to maximize balance and stability



MIAMI
Dynamic



JERUSALEM
Solid DAFO



BARCELONA
Dynamic Double
Crossbow



CHARLESTON
Balance Brace



MALTA
UCBL



OSLO
Supramaleolar
Orthosis



LONDON
Solid AFO



TEL AVIV
Articulated
DAFO



NEW YORK
Articulated

8

Protective Masks

Made by 3D printing with PA 12, a very versatile material. Our masks allow an optimal fit to the user's face, since they are 100% personalized. Besides being light and resistant, they allow a very good range of vision.



9

Shin Guards

Manufactured using 3D printing, with PA12, a very versatile material. They are Comfortable, safe, resistant and light, making them a quality and reliable method to protect your shin when playing soccer or other sports.



10

Our base materials

10.1

3D PA 12 (Polyamide)

Edser selects the best material suppliers around the world to find the highest quality and widest range of orthopedic materials available. Our variety of materials meets the needs of patients and the preferences of practitioners. Choose from flexible to very rigid to achieve the level of accommodation and biomechanical correction for the perfect prescription.



3D: A product of high quality and durability, which will allow you to offer your patients a wide range of treatments that were previously unattainable with traditional manufacturing methods.

Our orthoses are made of PA 12 (polyamide), a material with physical characteristics very similar to polypropylene, however, the functional performance is unequivocally superior.

Advantage: Reduce or increase product rigidity in specific areas, application of wedges and posts directly in the base of the orthosis, greater variety of thicknesses, medial arch reinforcement, reduction of medial and lateral arch density. Prescription on our online platform, with a new option that manufactures orthosis strictly replicating the mold with the possibility of adding the available corrective components.



3D
2mm / 2,5mm /
3mm / 3,5mm /
4mm / 4,5mm / 5mm

The Future is Now.

At Edser Labs, we combine superior craftsmanship with the latest technological advances in production methods and materials. We have developed and patented exclusive systems to offer professionals a fully customized orthosis manufacturing service.

In this line of constant development and innovation, we are proud to present our 3D printing process, which is the latest in materials and manufacturing technology.



New options to reduce or increase rigidity in specific areas.



Arch reinforcements incorporated in the shell and customizable.



Application of personalized wedges and posts, directly in the shell.



Multiple options for customized finishes for each patient.

10.2

Polypropylene



Polypropylene: Thermoformed polypropylene, returns to its original form faster than polyethylene or copolymer plastics, and is the gold standard for a functional orthotic plantar orthosis. Lifetime warranty against breakage. Given complete bottom shell coverage for an attractive finish unless otherwise requested.

Reinforced Arches The lower aspect of the plantar orthosis is reinforced by adhering a piece of EVA filler. Only available for polypropylene plantar orthosis, this option reduces the flexibility of the plantar orthosis without the aggression normally associated with prescribing a more rigid / thicker shell.



Polypropylene
2mm / 3mm / 4mm / 5mm

10.3

Fibers

Blue: Fiberglass with high percentage of fiber. The components of the template allow it to maintain its shape and offer a quick recovery. A resistant and adaptable insole, with a fine finish for customers who need these features for their feet.

Silver: A composite of glass fiber material consisting of two parts that form a wave; glass made with silver resin and an acrylic core. Silver does not break or weaken with the passage of time, providing durability and a plantar orthosis for all uses. Thinner than with plastic. This material is easily moldable in clinical use using a heat gun.

Graphite: Normally called carbon fiber or TL, this compound is made with reinforced thermoplastic fiber, named TL because it is the "Thinnest Lightest" material (thinner and lighter) available to provide functional control. This material offers mechanical performance and rigidity comparable to those reinforced in polypropylene but with half the thickness and one third of the weight.



Blue
1,5 mm / 2 mm



Silver
2,1 mm / 2,6 mm



Graphite
2,1 mm / 2,6 mm

Base materials

10.4

EVA

EVA: Ethylene Vinyl Acetate is a European favorite for fabricating both accommodative and functional foot orthosis. EVA orthotics are fabricated using an advanced precision direct CNC milling process that does not alter material properties to optimize orthotic durability. These devices can be easily worn with several shoe styles and continually bring a high level of satisfaction to our clients.



EVA: It is available in 5 different densities and 1 model with combined density; 4 recommended for a normal orthopedic style and 2 specific for diabetic devices. The corresponding density number range is measured based on a Shore A Durometer reading.

10.5

Plastazote

Plastazote Tp foam black hardness 40-45, the standard in the manufacture of plantar orthosis, as a base material. Low density plastazote for upper lining in diabetic orthosis.

Diabetic / Accommodative plantar orthosis



Functional



10.6

Linings

Perforated Linings



EVA
Yellow



EVA
Blue



EVA
Beige



EVA
Red



EVA
Black



EVA
Grey



EVA
Orange

Smooth Liners



Marbles
Pink, Blue, Fire,
Black, Green



Tricolor
Edser
Multicolor



Smooth
Beig



Plastazote
Beig



Beige poron + Microfiber
Poron, beige



Genuine leather
Brown
Black



Leatherette
Black / brown,
beige



Sport
Pink / grey,
yellow



Vinyl
Carbon



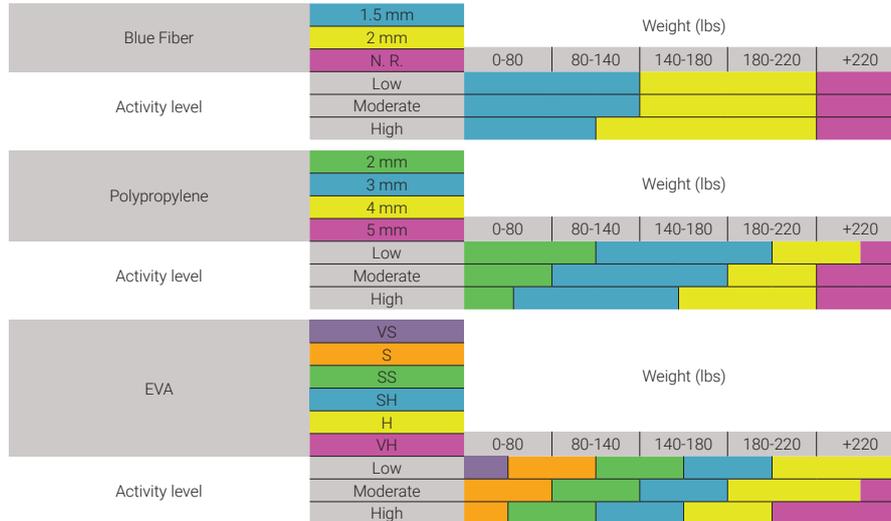
Neoprene
Black

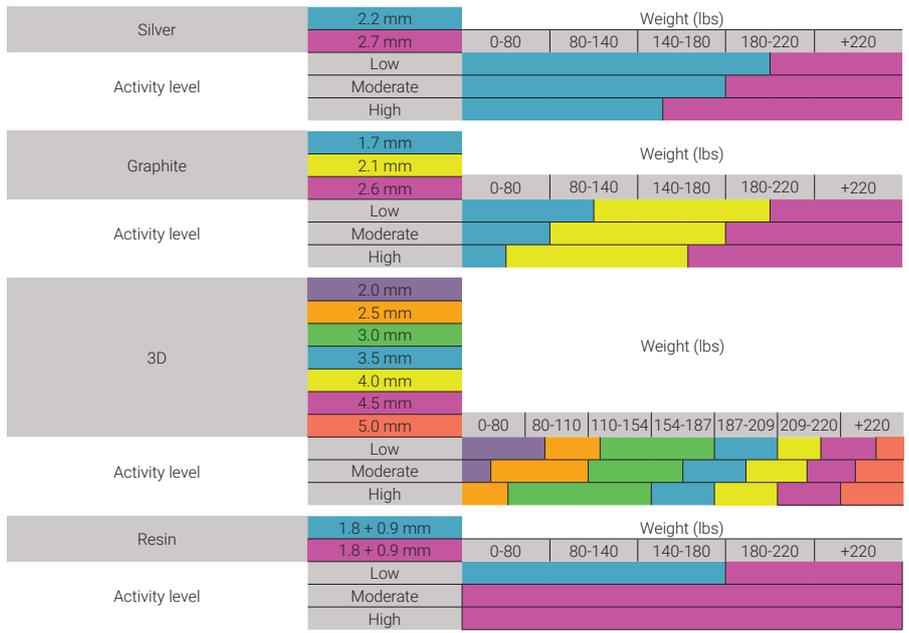


Nobouck
Camel

Recommendations for the prescription of base materials

Based on body weight in lbs and activity





Functional performance of base materials Depending on the body weight in lbs

	Thickness (mm)	Less than 100	100 - 150	150 - 200	200 - 250	250 - 300	+ 300
Polypropylene	2	SF	SF	F	F	F	---
	3	R	SR	SR	SF	F	F
	4	R	R	R	SR	SR	SF
	5	ER	ER	R	R	R	R
Carbon fiber	1.5	R	SR	SF	---	---	---
	2.0	ER	R	R	SR	SF	---
Graphite	1.7	R	R	R	---	---	---
	2.1	ER	ER	R	R	SR	---
	2.6	ER	ER	ER	R	R	R
Silver	1.7	R	R	R	---	---	---
	2.1	ER	ER	R	R	SR	---
	2.6	ER	ER	ER	R	R	R
Matrix	2.0	R	SR	SF	SF	---	---
	2.5	ER	R	R	SR	SR	---
	2.6	ER	ER	R	R	R	SR

F = Flexible, SF = Semi flexible, SR = Semi rigid, R = Rigid, ER = Extra rigid, --- = Not recommended for the patient's weight

	Thickness (mm)	Less than 100	100 - 150	150 - 200	200 - 250	250 - 300	+ 300
EVA	Semi hard (SH) 34 - 40	SF	SF	F	....	....	....
	Hard (H) 41 - 47	SR	SF	F	F	F	....
	Very hard (VH) 48 - 55	R	SR	SF	SF	F	F
	Dual-Density (DD)	SF	SF	F	....	....	....
3D	2	SF	SF	F	F	....	....
	3	R	SR	SR	SF	F	....
	4	R	R	R	SR	SR	SF
	5	ER	ER	R	R	R	R
Resin	1.8 + 0.9	F	F	F	....	....	....
	1.8 + 1.2	SF	F	F	....	....	....

F = Flexible, SF = Semi flexible, SR = Semi rigid, R = Rigid, ER = Extra rigid, = Not recommended for the patient's weight

11

The orthosis

Manufacturing

11.1

Arch contact

Cast correction is completed using CAD/CAM software on 3D scan of plaster cast, foam impressions or foot from EdserScan system. Edser Labs uses the following protocol:

Full Contact:

No arch fill added, arch heights true to cast/scan

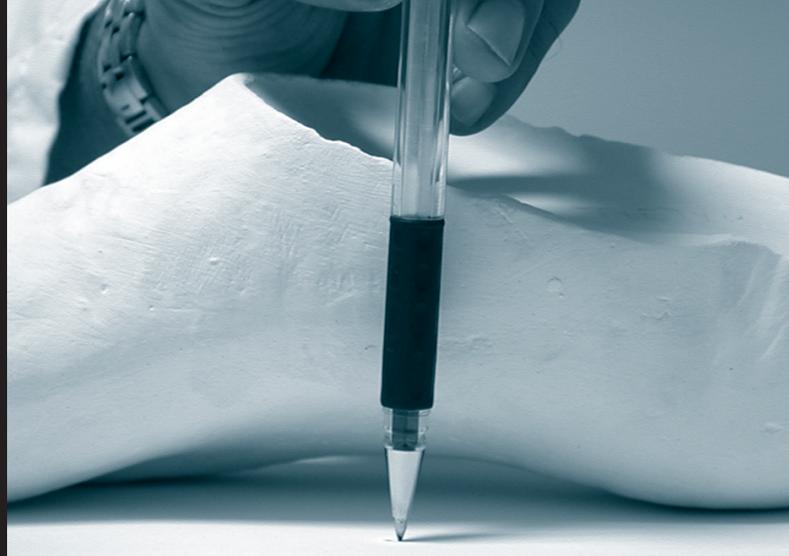
Moderate Contact:

3mm medial arch fill

Minimum Contact:

6mm medial arch fill

The default arch contact if none is selected is Full Contact for foam impressions and 3D scans and Moderate Contact for plaster casts.



11.2

Heel cup depth

The heel cup height is measured as the vertical distance from the heel contact point of the shell to the circumferential line of the heel cup. The addition of materials to the heel cup area of the device, including complete extra cushioning, will decrease the depth of the finished device as this measurement is based on the orthotic shell.

11.3

Heel Lift

EVA material Shore 70-75 added to the inferior surface of the rearfoot post. If no extrinsic post is prescribed, it will be automatically added to provide a stable surface for the heel lift. For a heel lift to be extended to the midfoot, the device must be made of EVA or reinforced Polypro to provide a flat inferior surface.

11.4 Postings

Edser Orthotic Labs uses CAD/CAM software to correct inversion or eversion of the negative cast before direct milling the positive or orthotic device. Unless specified, orthotic shells and bases are fabricated neutral and posted to vertical.

No-posting: Neutral shell without extrinsic post on rearfoot. Inferior of shell will be grinded flat in heel if established as default by practitioner.

Rearfoot Neutral Extrinsic Posting: Default for Versatility and Performance Styles, EVA material density Shore 65-70 added to inferior of heel cup area to stabilize rearfoot.

Extrinsic Posting

Forefoot - EVA material density Shore 55-60 added to the distal end of the orthotic shell to invert or evert the device. Bottom cover will be applied over the posting material.

Rearfoot - Eva material density Shore 65-70 added to inferior of heel cup area to invert or evert the device. Bottom is covered with 1 mm black EVA.

Intrinsic Posting

Forefoot- The forefoot platform of the positive representation is grinded medially or laterally to invert or evert the distal aspect of the shell.

Rearfoot- The calcaneal portion of the positive representation is manipulated to change the angulation and invert or evert the device. Upon request the Kirby Skive method can be used for intrinsic postings. With this method, the plantar surface of the heel area of the positive is grinded to invert or evert the rearfoot of the orthosis.

Varus Posting

Corrects Valgus deformity: constructed on the medial aspect to the evert device.



Extrinsic Varus Rearfoot Posting

Valgus Posting

Corrects Varus deformity: constructed on the lateral aspect to invert the device.

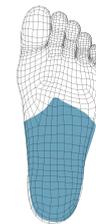


Intrinsic Rearfoot Posting

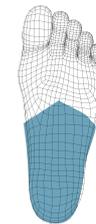
Modifications of the pattern

Edser Laboratories can manufacture any type of part / element that does not appear in the list, simply by illustrating the exact location in the prescription of the order or in the scanned image, and providing us with additional instructions in the field for comments.

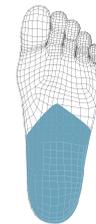
All modifications of the support will be made out of the material selected for the base of the orthotic device if indicated.



1st MPJ Cut-Out



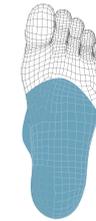
1st MPJ Straight Cut



1st Ray Cut-Out



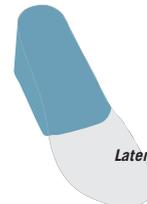
Kirby Skive



Medial Arch Expansion (In-shell)



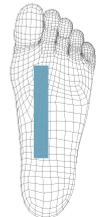
5th MPJ Cut-Out



Lateral Flange



Medial Flange



Fascial Groove

3D Printing Shell modifications



Arch density reduction



Lateral arch density reduction



Lateral arch density reduction



Heel density reduction



Anterior transverse arch density reduction



Arch support



Medial arch support



Medial reinforcement



Tri post



Tri pod valgus



Tri pod varus

Metatarsal accommodations

Accommodations are made from various densities of EVA and PPT materials determined by our lab based on patient weight/condition and predetermined practitioner preferences.

Met. Dome Pad

Triangular dome shaped EVA pad placed proximal to the 2nd, 3rd and 4th metatarsal heads.

Indications: Metatarsalgia, dropped metatarsals, interdigital neuroma, hammer toes, hallux valgus, rigid/immobile forefoot.



Met. Bar

EVA pad spanning from 1st to 5th metatarsals, beginning at shaft and extending to met head.

Indications: Metatarsalgia, reduced transverse arch, dropped metatarsals, forefoot callusing.

Parts

Reverse Morton's Extension:

Forefoot extension EVA starting at the base of the metatarsals, extending to the subdiaphyseal blade with a cut in the 1st metatarsal.

Indications: Rigid plantar flexion of the 1st radial, sesamoiditis, fractured sesamoids.



*Reverse
Morton's
Extension*

Pocket Met Heads:

Hole in forefoot of orthosis subindicated-MPJ, filled with PPT or soft EVA.

Indications: Painful and persistent callus, corn or plantar wart, lesion or ulcer sub-MPJ.

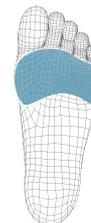


*Pocket Met
Heads*

Metatarsal Cushioning

EVA or PPT pad located in the forefoot area of the orthosis directly below the metatarsals, may include u-shaped cut-outs to offload specific met heads.

Indications: Forefoot callusing, reduced forefoot fat pad. Cut-out used for dropped or painful MPJ and sub-MPJ lesions, ulcers, calluses, corns or plantar warts.



*Metatarsal
Cushioning*

For the heel

Heel Cushioning:

PPT or very soft EVA pad placed in the entire area of the heel cup.

Indications: Heel pain, heel spur, reduced fibro-fatty pad, mild plantar fasciitis.



Heel Cushioning

Heel Hole

Cavity in shell of device located at the insertion of the plantar fascia to calcaneus, can be filled with PPT or soft EVA upon request.

Indications:

Plantar fasciitis, heel spur.

Horseshoe

EVA pad with U-shaped cut-out in area of medial calcaneal tubercle

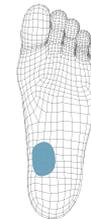
Indications: Centrally located bilateral heel spurs.



Horseshoe



Flat Heel



Heel Hole



*Rearfoot Neutral
Extrinsic Posting*

Discharge

Toe Crest Pad

EVA or PPT pad placed in the area of the sulcus specific to foot anatomy.

Indications: Hammer or claw toes.



Toe Crest Pad

Neuroma Pad

Small tear-drop shaped pad placed in the third metatarsal interspace, can be placed in alternative interspace upon request.

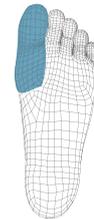
Indications: Morton's Neuroma, interdigital neuroma.



Neuroma Pad

Morton's Extension

EVA pad applied under the 1st metatarsal from the distal edge of the base material to the distal end of the orthosis. In polypropylene or 3D print only: Extension of the material from the base of the 1st metatarsal to the distal.



Morton's Extension

Indications: Limitation of the big toe, first short metatarsal compared to the fourth / fifth, dorsiflexion of the 1st.

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