

Otto Bock®

QUALITY FOR LIFE



1C31 Trias+

Ⓒ Instructions for Use



21-22 cm
max 176 lbs



23-24 cm
max 209 lbs



25-26 cm
max 242 lbs

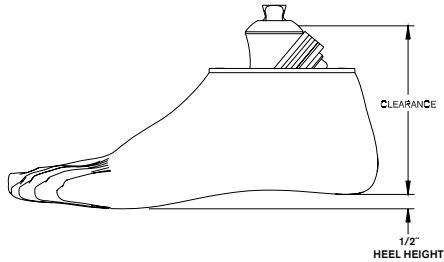


27-30 cm
max 275 lbs

* The Otto Bock MOBIS® is not intended to be used as a guide to obtaining reimbursement for prosthetic components in the USA.

Specification Table

Size (cm)	Clearance (in)	Foot Weight (oz) w/o foot shell	Maximum Weight Limit (lbs)
21	4 1/8"	7.8	176
22	4 1/8"	7.8	176
23	4 1/8"	8.8	209
24	4 1/8"	8.8	209
25	4 3/8"	11.5	242
26	4 3/8"	11.5	242
27	4 7/8"	13.2	275
28	5"	13.2	275
29	5"	14.1	275
30	5 1/8"	14.1	275



1 Application

The 1C31 Trias⁺ prosthetic foot is to be used exclusively for lower limb prosthetic fittings. Field of application according to the Otto Bock Mobility System MOBIS[®]:

- 1C31 = sizes 21 – 30 cm
- Recommended for amputees with Mobility Grade 2 and 3 (restricted outdoor walkers and unrestricted outdoor walkers).
- Permitted for a patient weight of up to 275 lbs depending on foot size.

Please refer to the selection chart below to determine the appropriate stiffness required according to Otto Bock recommendations.

Patient Weight (lbs)	Size (cm)				
	21-22	23-24	25-26	27-28	29-30
99-132 lbs	1	1	–	–	–
133-176 lbs	2	2	1	1	–
177-209 lbs	–	3	2	2	1
210-242 lbs	–	–	3	3	2
243-275 lbs	–	–	–	4	3

2 Safety Instructions



Attention! This foot is designed for amputees in Mobility Grades 2 and 3 and is not designed for activities such as running, jumping or any high impact situation. If the foot begins to make any noise or presents decreased forefoot resistance, it should not be used and should be inspected by a prosthetist immediately.

Care of Product

Avoid exposing prosthetic components in circumstances that

- cause corrosion on metal parts (such as freshwater, saltwater and acids) or
- have an abrasive effect on the carbon (such as sand).

The Foot Shell material is not UV- or water-resistant.

The surface of this prosthetic foot must not be damaged by grinding as it can lead to premature wear.

Using this product in such conditions will render all claims against Otto Bock HealthCare null and void.

Please forward this information to your patients!

3 Description and Function

The main features of the 1C31 Trias⁺ carbon fiber foot are the lightweight construction and unique interconnected functional elements which provide amputees with Mobility Grade 2 or 3 the ability to walk more easily in everyday situations.

The 1C31 is designed for use with modular prostheses for patients with different amputation levels. It is delivered assembled with an integrated modular adapter. The foot is designed to be used with the spectra sock, a cosmetic footshell and a detachable Foam Connection Cap. The Foam Connection Cap provides an effective connection between the foot and cosmetic foam shin cover.

The combination of the spring elements offer the following functional advantages:

- Cushioned heel strike with noticeable plantar flexion
- Progressive movement of the ankle in the mid-stance phase for natural rollover of the foot
- Dynamic transition from stance to swing phase
- Smooth dynamic forefoot response

4 Installation and Alignment Instructions

4.1 Assembly

To apply the Foot Shell

The foot is designed to be used with a Foot Shell. Avoid frequent removal of the foot from the Foot Shell. Inserting and removing the carbon foot into/from the Foot Shell too many times can damage the carbon fiber elements.

- Attach a pylon to the prosthetic foot before inserting into the Foot Shell. This will make it easier to carry out this procedure.
- Apply supplied Spectra Sock to 1C31, then use the Foot Shell Insertion/Removal tool provided by Otto Bock to insert the carbon foot into the Foot Shell.
- Make sure that the carbon heel of the foot locks in place under the Foot Shell heel tabs.

To remove the Foot Shell

- Insert the Insertion/Removal tool under the carbon heel which is located under the heel tabs in the posterior part of the Foot Shell and pry the carbon heel out of the shell. The foot can now be removed from the Foot Shell.



Please do not use a screwdriver to insert/remove the carbon foot into/from the Foot Shell as this can damage the carbon fiber elements and/or the Foot Shell.

4.2 Bench Alignment Recommendations (Foot with Foot Shell)

Foot size (cm)	Mid-foot anterior to alignment line	Heel height
21 - 22	35 mm	10 mm ± 5 mm
23 - 25	40 mm	10 mm ± 5 mm
26 - 28	45 mm	10 mm ± 5 mm
29 - 30	50 mm	10 mm ± 5 mm

4.3 Static Alignment Recommendations (using L.A.S.A.R. Posture)

Align the prosthesis on the L.A.S.A.R. Posture, if available. Please use the Otto Bock alignment recommendations for transtibial and transfemoral prostheses.

4.4 Dynamic Alignment Recommendations

Align the prosthesis in the Coronal (ML) and Sagittal (AP) plane by making angular and/or slide changes to ensure the correct heel contact, a smooth rollover and optimal forefoot transfer of weight onto the contralateral side. For transtibial amputees please make sure that there is physiological knee flexion during stance phase.

4.5 Foam Connection

The 2C10 Cosmetic Foam Connection Cap serves as a detachable connection between the cosmetic foam cover and the cosmetic Foot Shell. It snaps into the proximal brim of the Foot Shell.

- Cut the foam cover to length, allowing for distal compression of 10 to 40 mm depending on the length.
- Cut out a section of the distal end of the foam to accommodate the upper part of the foot adaptor. Sufficient space is required to permit movement and prevent any noises.
- Disconnect the foot making sure not to lose the alignment achieved during dynamic stages.
- Pull foam over the prosthesis, reassemble the foot and mark the outer contours of the connection cap which is attached to the Foot Shell.
- Remove the connection cap and clean with 634A58 Isopropyl Alcohol.
- Allow to dry and fix the connection cap to the Foot Shell.
- Apply 636N9 Quick-Drying Rubber Cement or 636W17 Plastic Adhesive to the distal end of the foam and the connection cap.
- Allow the rubber cement/adhesive to dry for 10 minutes.
- Bond the connection cap to the foam.
- Finish off the outer shape of the cosmetic foam. Any compression of the foam by cosmetic stockings or SuperSkin needs to be taken into account.

4.6 Final Assembly

Due to the high forces generated in the adaptor area it is absolutely necessary that the adjustment screws of the tube adaptor be tightened to a torque value of 15 Nm.

Use a 710D1 Torque Wrench and secure the set screws with 636K13 Loctite® when finishing the prosthesis.

5 Maintenance Guidelines

- Foot assembly should be inspected after first 30 days (4 weeks) of use.
- Inspect the entire prosthesis for wear during normal consultations
- Foot Shell may require replacement if wear is excessive

6 Liability

The manufacturer recommends using the device only under the specified conditions and for the intended purposes. The device must be maintained according to the Instructions for Use. The device must only be operated with tested modular components in accordance with the Otto Bock Mobility System. The manufacturer is not liable for damage caused by component combinations that were not authorized by the manufacturer.

Please do not disassemble the components of the foot. In case of technical issues, please return the entire foot to Otto Bock.

7 Declaration of Conformity

Otto Bock HealthCare (Otto Bock) warrants all of its products and services, to the original purchaser, to be free from defects in materials and workmanship. This warranty applies, subject to normal wear and tear, when the products are used as intended, without unapproved modifications, following all Otto Bock instructions and requirements; and when they are fitted by or under the direct supervision of certified/licensed practitioners who meet all Otto Bock product-specific training requirements for a given product.

The duration of our Limited Warranties varies by product and service, but all are effective from the date of delivery to the patient. When indicated, the duration of the Limited Warranty for some components may be extended when incorporated into a finished device in which all of the components are manufactured by Otto Bock and installed in conformance with all Otto Bock recommendations. Otto Bock's sole obligation under this Limited Warranty shall be to repair,

replace, or refabricate at no charge, or to refund the cost of the system or component thereof to the original purchaser, at Otto Bock's sole discretion. The specific terms and conditions of the limited warranty for the following product(s) are as follows:

1C31 Trias⁺

- | | |
|-----------------------------------|----------------|
| • Warranty Duration – Parts | 36 months |
| • Warranty Duration – Fabrication | Not Applicable |
| • Extended warranty available | No |
| • Manufacturer training required | No |
| • Service required | No |

This limited warranty does not cover test sockets, or damage due to accidents, neglect, misuse or operation beyond capacity, parts damaged by improper installation, substitution of parts not approved by Otto Bock, any alteration or repair by others that, in Otto Bock's judgment, materially or adversely affects the product or part.

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Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

Please refer to the Otto Bock website or product/service price list for additional warranty information or contact your local Otto Bock Sales office.

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