

obsidian

Direct Mount
Product Manual

Fillauer®

Instructions

The Obsidian DM has been designed and manufactured for specific patient weights. Failure to follow the weight guidelines and/or overload conditions caused by the patient, such as heavy lifting, high impact sports, or abusive activities that would otherwise damage the natural limb, will void the warranty. **Carefully follow all listed torque and threadlocker specifications.**

- The pyramid bolt should be checked every three months for signs of loosening. If the pyramid shows any sign of movement from its original position, remove the bolt, reapply threadlocker, and torque to 40 N·m.
- Please review the FAQ section of the manual on page 6 before use of the foot. These instructions should be read prior to fitting and followed to ensure the proper integration of the Obsidian DM into the patient's prosthetic system.
- The foot stiffness is based on weight and activity level. Please provide accurate patient information so that the appropriate foot may be selected.

Product Specifications

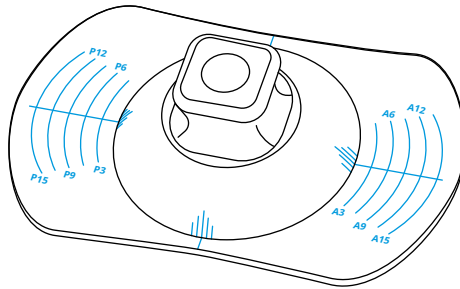
- Patient weight: Up to 330 lbs. (150 kg)
- Foot weight with sole: 19.4 oz. (550 g)
- Sole weight: 5.3 oz. (150 g)
- Build height: 10.75 in. (27.3 cm)
- Foot size: One size fits 22 – 30 cm
- Functional level: K3 – K4

Installation

Attention: Deviating from the installation instructions or modifying the foot in any way will void the product warranty and could lead to product failure and injury to the patient.

Pyramid Slide

The Obsidian DM features an integrated slide adapter which allows for posterior / anterior pyramid adjustment and internal / external rotation. The pyramid plate has anterior (A3 – A15) and posterior (P3 – P15) markings in 3mm increments, and the pyramid has angle markings in 2.5° increments. By default, the pyramid is set at “A6,” the most commonly preferred position.



Fitting Washer

The Obsidian DM comes with a Fitting Washer installed beneath the pyramid to prevent blemishes to the pyramid plate during fitting. Once the pyramid position and alignment are finalized, the Fitting Washer must be removed. First, make note of the pyramid position in the slide, then unthread the pyramid bolt. Remove the Fitting Washer, then reassemble the pyramid, bushing, and bolt in the determined alignment.



Final Bonding

Apply blue threadlocker (included) to the pyramid bolt threads, and torque bolt to 40 N·m. If the pyramid position is changed, threadlocker will need to be reapplied to the bolt threads, and the bolt torqued again to 40 N·m.

Static Alignment—Sagittal Plane

Begin with a neutral socket alignment and the pyramid located at the A6 pyramid position.

Transtibial Frontal Plane Alignment

Most runners prefer a wider base of support with the foot slightly lateral to the distal bisection of the socket, 7 – 13 mm. The longitudinal axis of the foot may be externally rotated up to 5 – 8° depending on the runner's preference.

Transfemoral Static Bench Alignment

Begin with a standard TKA alignment and a neutral attachment to the pyramid located at the A6 pyramid position. The line will fall approximately 2 in. posterior to the contact point on the sole of the blade.

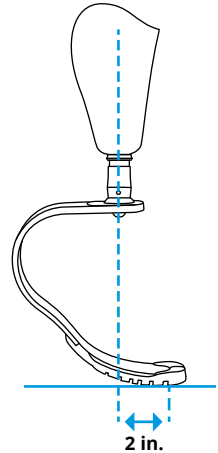


Figure 1

Dynamic Alignment

It is important to align the prosthesis so that the C-spring is loaded sufficiently to provide dynamic response late in stance but not so much deflection that there is no terminal stance support. Compression of the C-spring is desirable for optimal performance and foot deflection may be more noticeable during dynamic alignment. Approximately ½ in. (12 mm) additional height accommodates for spring deflection during high activity. Patient feedback during this process is essential. Adjustments of the plantar/dorsiflexion angles will help the patient achieve balanced compression of the spring.

Installation/Removal of the Sole

The Obsidian DM is provided with a sole pre-installed. See the sole user manual for full instructions on installation and removal.

Frequently Asked Questions

Can I change the pyramid position in the slide?

Any change to pyramid position or alignment must be performed by a prosthetist.

Can I get my Obsidian DM wet?

The Obsidian DM is designed to be maintenance free. The foot is waterproof; however, if the foot is submerged in water, the fasteners should be rinsed with fresh water and dried as soon as possible.

Is there regular maintenance on the foot for which I should see my prosthetist?

The Obsidian DM is a high performance foot and should be inspected every 3 months for signs of abnormal wear and that the attachment/alignment screws are secure.

What should I do if my foot is no longer performing as well or is making noise when in use?

If the foot performance changes or if it makes noise, the patient should immediately contact his or her practitioner.

Warranty

12 months from date of patient fitting

The Obsidian DM has been designed and manufactured for specific patient weights. Failure to follow the weight guidelines and/or overload conditions caused by the patient, such as heavy lifting, high impact sports, or abusive activities that would otherwise damage the natural limb, will void the warranty.

Satisfaction Guarantee

60 days from date of patient fitting

Fillauer®

www.fillauer.com

Fillauer LLC

2710 Amnicola Highway
Chattanooga, TN 37406
423.624.0946
Fax 423.629.7936



© 2019 Fillauer LLC
M068/07-03-19