

**MINI**

**shock**

FROM FILLAUER LLC

MINI



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# MINIshock



The Fillauer MiniShock is a smaller version of the Fillauer DuraShock. With the same popular function and durability as the DuraShock, the MiniShock is designed to be a smaller, lightweight version for children and lightweight adults up to 132 lbs. (60 kg)

U.S. Patents 6,468,315 & 6,682,569

# Features and Benefits

## Features

- Shock and torque absorption for increased socket comfort
- Up to 60° of axial rotation (30° in each direction)
- 5 mm (3/16 in.) of vertical shock
- Requires only 2.38 in. (6 cm) of build height
- Weight rated for patients up to 132 lbs (60 kg)
- Medium pyramid fits 22mm pediatric components
- Maintenance free design
- Lightweight titanium construction

## Benefits

- Reduction of forces to residual limb
- Requires no lubrication or bumper changes
- Smooth motion created by the Dynamic Elastomer
- Increased comfort for higher activity
- Compact design requires minimal clearance
- May be installed with pyramid proximal or distal

# Indications and Contraindications

Indications	
More Active (Sports)	Less than 132 lbs (60 kg)
Less Active	Less than 110 lbs (50 kg)
Pyramid Size	Medium
Minimum Build Height	2.38" (6 cm)
ISO Max Weight Rating	132 lbs (60 kg)

*NOTE: Weights are a suggested guide for torque and shock performance. Individual preference & performance will vary.*

Contraindications
Weight greater than 132 lbs (60 kg)
Less than 2.38 (6 cm) Clearance
Patients with Poor Balance

# Specifications

Specifications	
Height	2.38" (6 cm)
Product Weight	130 g (4.6 oz)
ISO Max Weight Rating	132 lbs (60 kg)
Pyramid Size	Medium

## Frequently Asked Questions

### *Why choose the MiniShock?*

The MiniShock is maintenance free and easy to use. The superior function of the MiniShock better approximates the biomechanical rotation and shock of the physiologic limb.

### *The MiniShock has a lot of rotation. Will the patient acclimate to this function?*

Yes, in most cases. Although, rotation in the lower extremity is natural, it is not included in many prosthetic designs. The control of this range of motion may require a few days to master. After a week or so most patients like it so much they find it hard to return to a limb without rotation.



*Can the rotation and shock function be adjusted or fine-tuned?*

Yes, using the dampening ring you can fine-tune the performance of the device. See instructions under “Dampening Ring” in this manual.

*What is the weight limit for the MiniShock?*

Currently the weight limit is 132 lbs (60 kg) overall.

*Does it matter which end of the MiniShock attaches to the socket?*

No. It may be attached in either orientation - pyramid proximal or distal.

# Installation

Installation of the MiniShock Pylon is much the same as a standard pylon. There are however, a few differences to consider.

## Orientation

The pylon may be installed with the pyramid receiver in the proximal or distal position (up or down) without effect on the performance.

## Attachment and Alignment

The MiniShock pylon version has a pyramid receiver on one end and a pyramid on the other end. Standard installation would be to attach the receiver end to a pyramid and the pyramid end to a receiver. The pyramid receiver screws should be tightened to 144 in-lbs (16N-m) and the securing bolt on the tube clamp version should be torqued to 90 in-lbs (10N-m).

## Dampening Ring

A “dampening” ring is provided with the MiniShock and is used to “fine tune” the performance of the unit. Use of the

dampening ring increases general stiffness for vertical shock and rotation. The ring is placed around the elastomer section and tightened down with wide-jaw pliers such as Channel Locks. An additional ring may be ordered and used for extra shock and rotation dampening.

The more the dampening ring is tightened, the less rotation and vertical travel the unit will have. In addition, placing the ring more distal will limit vertical travel while allowing more torsion.

Ensure that the ring always has some tension on it to keep it from sliding off the shock. The dampener ring is released by sliding two grooved sections apart.

## **Installation for MiniShock**

The MiniShock requires a pyramid receiver on one end and a pyramid device on the other. Please read installation section as it contains other information regarding installation of the MiniShock.

# Care, Maintenance and Warranty

## Care and Maintenance

The MiniShock is designed to be maintenance free.

## Lubrication

The MiniShock is filled with a special permanent lubricant that will last the life of the unit. No lubricant should be used on or in the MiniShock as it may cause failure and will void the warranty.

## Cap Screw

The cap screw in the top of the MiniShock is not to be removed. It is the factory lubrication port. Turning this screw does not adjust the function in any way. Tampering with or removing this screw will void the warranty.

## **Adjustment**

The alignment screws should be checked and torqued to the specifications of 144 inch pounds (16.3Nm) once a year.

## **Warranty**

Fillauer LLC will warrant the MiniShock to be free of defects in materials or workmanship for a period of One Year from the date of fitting. It is recommended that a copy of purchase invoice be marked with date of fitting and placed in patient chart as proof of purchase for warranty purposes.

The warranty will be voided if the weight rating for the pylon is exceeded or the pylon is modified in any way. Evidence of obvious abuse or misuse will also void the warranty.

# Troubleshooting

Description	Possible Cause	Solution
Too much rotation	Dampening ring	Ring may be loose-secure
Too much rotation	Wear/damage	Replace
Too much vertical displacement	Dampening ring	Ring may be loose-secure
Too much vertical displacement	Weight limits	Check weight activity rating for model installed. Replace if indicated.
Too much vertical displacement	Wear/Damage	Replace
Noise	Dampening Ring	Ring may be loose-secure

Description	Possible Cause	Solution
Noise	Wear	Inspect for malfunctioning condition
Noise	Cover	Some semi-rigid covers may rub on pylon, socket or foot shell in rotation
Noise	Damage	Inspect for malfunctioning condition

# Practitioner's Instruction to Patients

## Changes in Performance

Any changes in performance or noises that might develop should be reported immediately to the Practitioner.

## Cleaning

If the MiniShock Pylon is left uncovered it should be rinsed with fresh water after exposure to corrosive environments. In addition the unit may be cleaned with mild soap and water.

## Lubrication

Do not attempt to lubricate!

## Loading

The MiniShock is designed to absorb torsion and vertical shock loads. Suspending yourself with the MiniShock (hanging upside down by the prosthesis) or attaching sports equipment such as



skis, snowboards, wakeboards or any other devices with a foot binding, may cause the minishock to come apart and cause injury as a result.

## **L-Code Recommendations - USA Only**

### **L-Code Description**

The following are suggested L-Codes for the MiniShock Pylon. The manufacturer and distributor of the MiniShock Pylon do not assume any liability for L-Code recommendations.

L-5988    Addition to lower limb prosthesis, vertical shock reducing pylon feature.

L-5984    All endoskeletal lower extremity prosthesis, axial rotation unit.

The above codes are reimbursable for functional levels K2 to K4.

## Order Information

### MS001SS MINISHOCK



Includes:

128465 22mm dampening ring

882608 4 Adjustment Screws, M6x1



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Fillauer • 1-800-251-6398 • [www.fillauer.com](http://www.fillauer.com)  
Hosmer • 1-800-827-0070 • [www.hosmer.com](http://www.hosmer.com)  
Centri • +46 8 505 332 00 • [www.centri.se](http://www.centri.se)



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FILLUAER LLC  
[www.fillauer.com](http://www.fillauer.com)  
1.800.251.6398  
1.423.624.0946