

**INSTRUCTIONS FOR USE**

**IFU CODE: 32**

**iB-ER**  
*PROSTHETIC*



**PN-200**

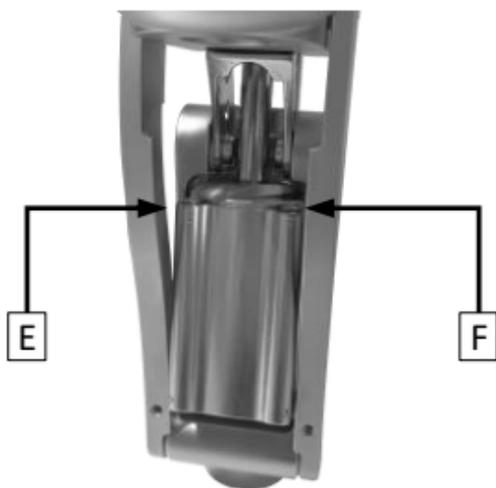
**Pneumatic Knee Joint**

**CE**

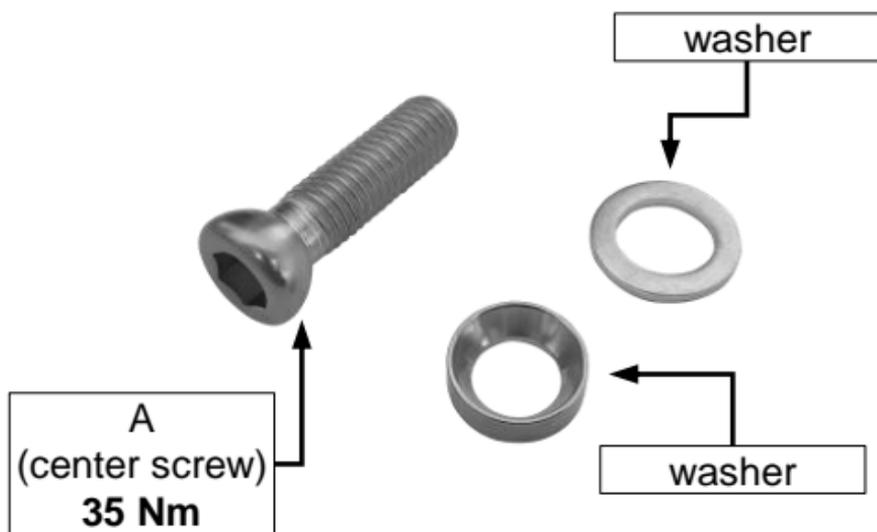
**Fig. 1 (Clamp Screw)**



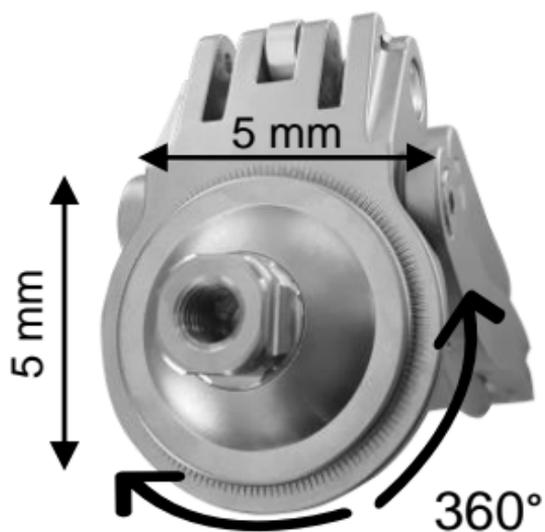
**Fig. 2 (Extension and Flexion Adjustments)**



**Fig. 3**



**Fig. 4**



## **INFORMATION**

Last Update: 11.11.2024



- Please read this document carefully before using the product.
- Instruct the user in the appropriate and safe use of the product.
- Follow the safety instructions to abstain injuries and damage to the product.
- Please keep this document in a safe place.

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# 1. PN-200 - *Pneumatic Knee Joint*

Flexion and Extension individual adjustments

Pneumatic Swing Phase Control

Internal Extension Assist

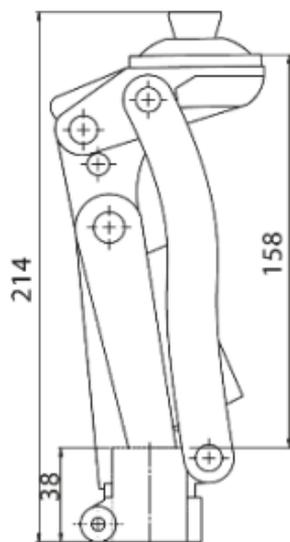
Long 4-Bar Polycentric Design

Pyramid and M36 connection adapter options

Anterior – Posterior and Medial – Lateral shifts of 5 mm

## 1.1 Features

Product Name with Pyramid Connection	PN-200A
Product Name with M36 Connection	PN-200B
Advised Activity Level	K2-K3
Material	Aluminum
Max. User Weight	100 Kg
Flexion Angle	155°
Product Weight	944 gr
Overall Length	214 mm
Build Height	158 mm



## 1.2 Connection Adapter Types



**Pyramid Connection**



**M36 Connection**

## 2. Assembly & Setting Instructions

### *2.1 Head Adapter Replacement*

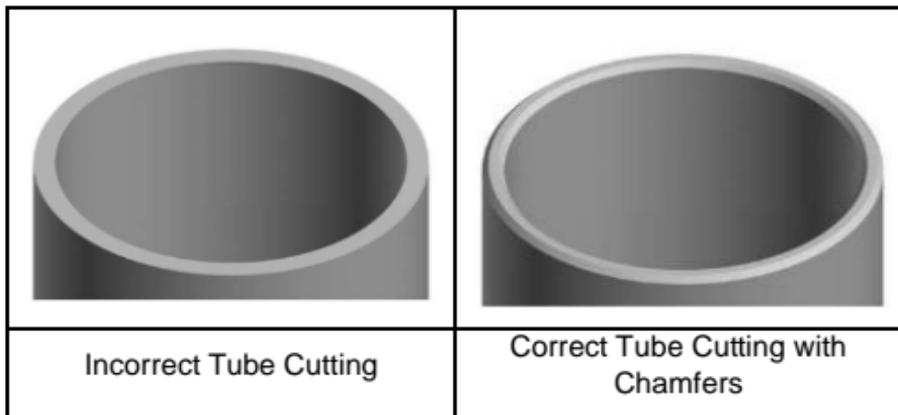
As shown in Figure 4, the head adapter in this knee joint can rotate 360 degrees and can be positioned in any direction up to 5 mm from the main axis. After the adapter is placed in the correct and desired position, it should be fixed with the center screw (A), as follows:

1. Put the washers on the center screw (A), making sure the conical surfaces match. Make sure the serrated surfaces match.
2. Mount the desired head adapter (Pyramid adapter or M36 adapter) to the knee joint by tightening the center bolt and using a medium-strength threadlocker.
3. Tighten the center bolt with a torque wrench to **35 Nm**.

### *2.2 Tube Assembly*

The lower side connection of this knee joint is made with an aluminum tube. There are some points to consider for the aluminum tube to be used in assembly.

In order to provide safe construction, the cutting edge of the aluminum tube must be carefully deburred inside and outside after cutting.



### TIP!

Don't clamp the tube in order to cut it at desired length, prefer to use cutting edge. Make sure that cut surface is flat and not cut slanting. Clean the burrs on edges after cutting the tube. Avoid any line formation that causes it to be broken.

## 2.3 Tube Clamp Screw

Tighten Clamp Screw (**Fig. 1**) using torque wrench.

Torque value: **16 Nm**



### ATTENTION!

Secure screw thread with medium strength threadlocker adhesive.

## 2.4 Extension and Flexion Adjustments

Extension and flexion adjustments can be made separately in the PN-200 Pneumatic knee joint using the adjustment bolts **(E)** and **(F)** shown in the picture **(Fig.2)**.

For a faster Extension Phase:	Turn the screw <b>(E)</b> counterclockwise
For a slower Extension Phase:	Turn the screw <b>(E)</b> clockwise

For a faster Flexion Phase:	Turn the screw <b>(E)</b> counterclockwise
For a slower Flexion Phase:	Turn the screw <b>(E)</b> clockwise

## 3. Environmental Conditions

<b>Acceptable Environmental Conditions</b>
Temperature use range: -10 °C to +40°C
Humidity: Allowable relative humidity 0% to 90%, non-condensing
<b>Unsuitable Environmental Conditions</b>
Fresh water, salt water, sweat, urine, acids e.g.
Sand, dust, highly hygroscopic particles (e.g., talcum)
Mechanical vibrations, impacts
Cleaning agents containing solvents

## 4. Service Life

The service life of the product is about 3 years. This duration depends on the daily activity of the user.

## 5. General Safety Instructions

### CAUTION!



To avoid the risk of injury and product damage, do not use for longer than the service life of the product.

The suitability of the device to the patient and the prosthesis should be evaluated by a healthcare professional.

The device must be fitted and adjusted by a healthcare professional.

There is a danger of pinching and injuring your finger or skin. Do not insert your hand into the joint mechanism!

Avoid using this product in unsuitable environmental conditions. If the product has been exposed to unsuitable environmental conditions, check for damage.

Do not use the product that is damaged, has limited functionality or is in doubtful condition. Ensuring that appropriate measures are taken (e.g., control, cleaning, repair, replacement by the authorized workshop or manufacturer).

To prevent mechanical damage, be careful and caution when working the product.

Use the product for a single patient to avoid injuries and product damage.

Products should be used in appropriate combinations. Using the product with unsuitable combinations may result in possible injury.

In case of feeling any space or sound, apply the rehabilitation center who installed the foot.

## 6. Maintenance

1. After the first 30 days of use, the prosthesis parts should be visually inspected and function checked.
2. Inspect the entire prosthesis for wear during normal consultations.
3. This prosthesis and its components should be checked for function by a prosthetist at regular intervals every six months. If the recommendations are followed properly, there is no risk.

## 7. Warranty

IB-ER company provides the warranty for the products in case of material and production flaws. The warranty period of the above mentioned product is stated below.

<b>Product</b>	<b>Duration After The IB-ER Invoice Date</b>
PN-200A	24 Months
PN-200B	

This warranty covers on only replacement and repair of failed products after assemblies performed by qualified individuals and competent institutions. This warranty is not applicable in case of following points:

- Improper use of the product, using with unsuitable conditions and fault assembly.
- Issues arising from replacement of our products with other products.



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