

INSTRUCTIONS FOR USE

IFU CODE: 39

IB-ER
PROSTHETIC



**E 86 Polycentric Knee Joint with
Extension Mechanism**

(E 86)

CE

Fig. 1 (Clamp Screw)

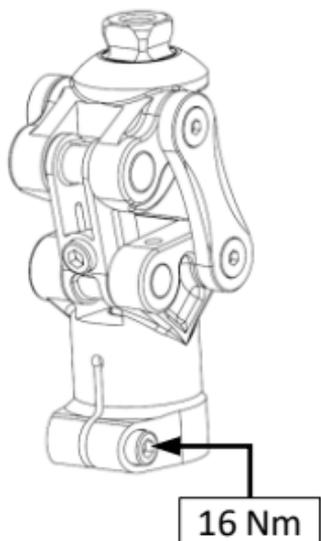


Fig. 2

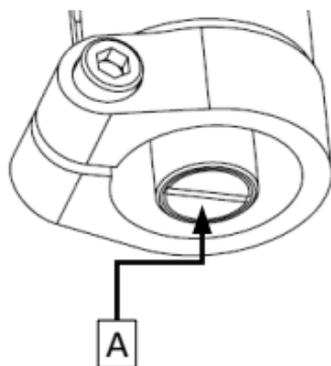


Fig. 3

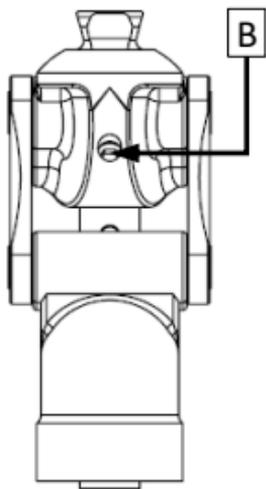
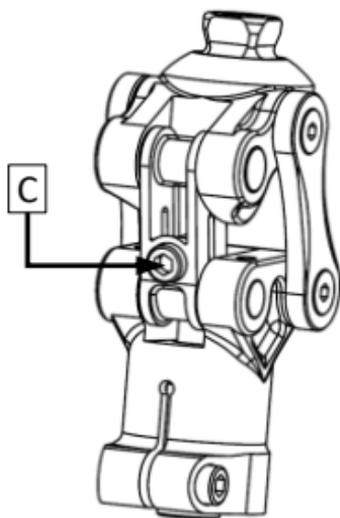


Fig. 4



INFORMATION

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- 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. E 86

Polycentric Knee Joint with Extension Mechanism

Mechanical 4-Bar Polycentric Knee Joint

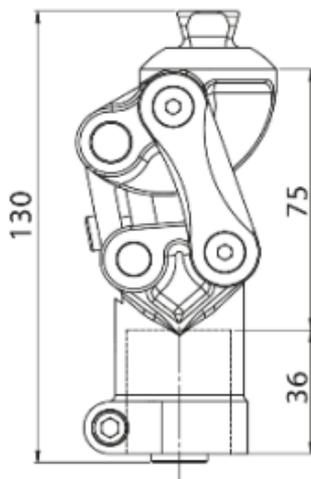
Provides adjustable extension assist

Friction control mechanism

High knee flexion angle up to 160°

1.1. Features

Product Name	E 86
Advised Activity Level	K1-K2
Material	Aluminum
Max. User Weight	125 Kg
Flexion Angle	160°
Product Weight	450 gr
Overall Length / Build Height	130 mm / 75 mm

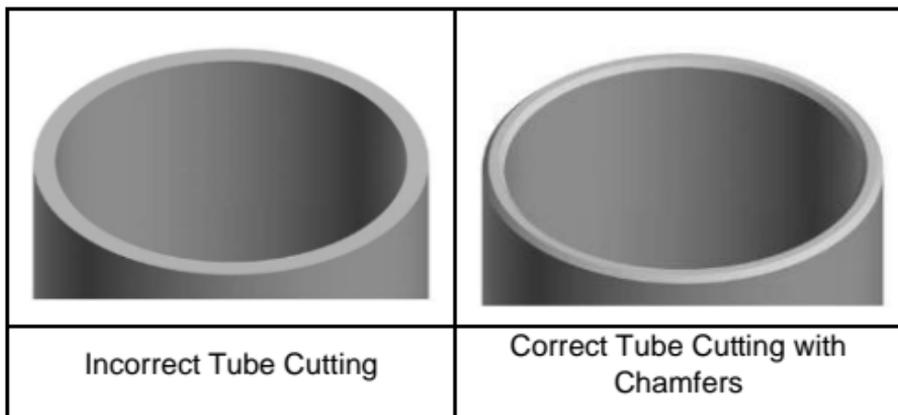


2. Assembly & Setting Instructions

2.1 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.

2.2 Tube Clamp Screw Assembly

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

Torque value: **16 Nm**



ATTENTION!

Secure screw thread with medium strength threadlocker adhesive.

2.3 Swing Phase Adjustments (*Fig.2 A*)

Swing phase regulation can be done with the extension assist adjustment.

Turning the adjustment screw ((A) in fig. 2) changes the tension of the spring of the extension support. Thus, the swing phase speed can be changed as desired.

For a faster Swing Phase:	Turn the screw (A) to the right
For a slower Swing Phase:	Turn the screw (A) to the left

2.4 Stance Phase Adjustments (*Fig.3 B*)

Stance phase adjustments are made with screw A (Fig. 3). Make sure the patient can activate and deactivate the geometric lock. Always check that any adjustments or changes made are appropriate for the patient.

To allow for a more dynamic gait:	Turn the screw (B) to the right
To increase stance phase stability:	Turn the screw (B) to the left

2.5 Adjustment of Axle Friction (Fig.4 C)

Axle Friction Adjustment is adjusted with the C screw in Figure 4.

to increase friction on the axle	Turn the screw (C) to the right
to reduce friction on the axle	Turn the screw (C) to the left

3. Environmental Conditions

Acceptable Environmental Conditions
Temperature use range: -10 °C to +40°C
Humidity: Allowable relative humidity 0% to 90%, non-condensing

Unsuitable Environmental Conditions
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.

Product	Duration After The IB-ER Invoice Date
E 86	24 Months

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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