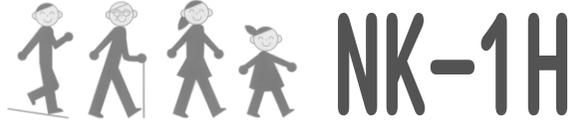


Nabtesco

Advanced Pneumatic Knee



Heavy-duty NK-1

User Guide

Read This Guide Before Use!



*Keep this guide for
future reference.*

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5. Maintenance

To use the knee joint comfortably, please read the following:

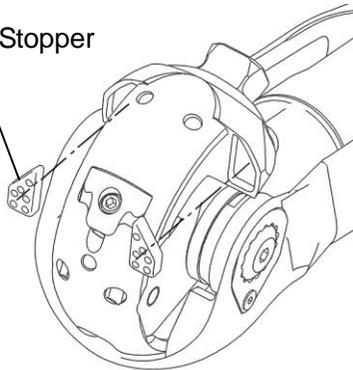
- Do not use water, solvents, or the like to clean the inside of the knee joint.

Gently wipe dust from the outside and inside of the device. Dust on the surface does NOT affect the function of the knee joint.

- Replace the *¹extension stopper once a year. The replacement should be done by a professional.

* Replacement intervals may vary according to working conditions or the environment.

*¹ Extension Stopper



When you notice any of the following problems using the knee joint, CPO:

- There is excess play or noise in the knee joint.
- The swing of the knee joint becomes harder.
- Water has gotten into the knee joint.
- The performance of the knee joint has changed.

1. What is a Advanced Pneumatic Knee?

<Features>

● Automatic Swing Speed Control

During the swing phase, the pneumatic cylinder automatically optimizes the swing back speed to ensure a smooth and natural transition during changes in walking speed.

● Lightweight and Compact

The high-strength titanium frame makes the knee joint lighter and more durable. The compact design can be easily used by smaller amputees such as women or children.

● Provides Stability in the Stance Phase

The load brake locks the flexion of the knee during the stance phase and releases during the swing phase to enable the amputee to both stand stably and to swing the knee smoothly.

<Main Specifications>

Type: NK-1H (NK-1Hs)

*NK-1Hs with a built-in extension spring.

Length: 220 mm

Weight: 910 g (910g)

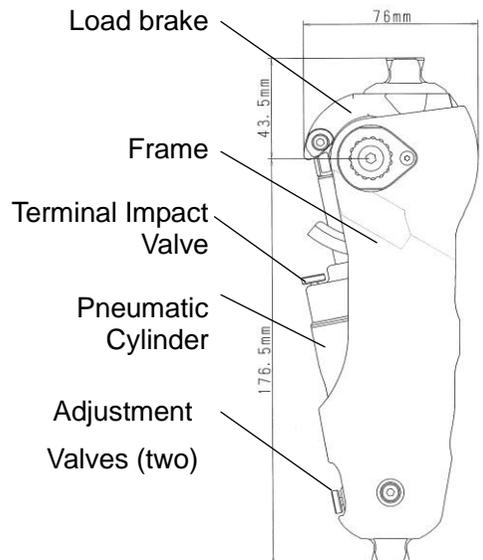
Maximum Flexion: 160 degrees

Usable Temperature Range: -20 to 50 °C

Maximum Allowable Load: 125 kg

(ISO 10328)

*These specifications are subject to change without notice.



◆ Usage Precautions ◆

When Removing the Knee



PROHIBITED

Do not leave the knee joint in a place where it will get or it is humid.

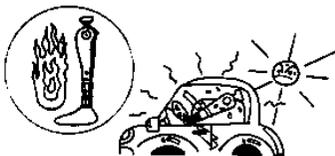
Doing so could cause the knee joint to rust and subsequently malfunction.



PROHIBITED

Do not leave the knee joint in a place where the temperature exceeds 50 °C such as near a fire or in a car under the hot sun.

Doing so could cause deformation of the plastic and subsequent malfunction.



PROHIBITED

Do not leave the knee joint where temperature is below 0 °C .

Doing so could cause the knee joint to malfunction.



◆ Essential Points ◆

3. Safety Precautions

To prevent the knee joint from damage or malfunction, observe the following precautions:



WARNING

Never disassemble or modify the knee joint.

Doing so may damage the unit and cause instability which could result in a fall.



WARNING

Never adjust the adjustment valves.

Incorrect valve adjustment may result in instability and/or falling.

If valve readjustment is required, consult a professional.

* CPO: Certified Prosthetist and Orthotist



WARNING

Persons weighing more than 125 kg should not use this knee joint.

Doing so may damage the unit and cause instability which could result in a fall.

(To be exact, the total weight of the amputee, prosthesis and any load being carried should not exceed 125kg. Although the NK-1H is engineered with a safety margin to allow for temporary everyday situations, prolonged or excessive exceeding of the load limit can lead to serious damage to the unit which could result in instability or falling.)