

Hybrid Knee R

DEVELOPMENT CONCEPT

- In Japan, the number of elderly users is increasing.
- Aim to create a knee joint that is safer and easier.
- Inherits the advantages of the Hybrid Knee.
- MRS technology to balance hydraulic stability with lightweight pneumatic movement.
- Remove electronic control to make the knee lighter, more compact and maintenance-free.
- A new switching function makes training easier for users.

COMPARISON

	Hybrid Knee R	Hybrid Knee
Type	NK-3/ NK-3SH	NI-C311 / NI-C313
Stance	Hydraulic	Hydraulic
Swing	Pneumatic	Pneumatic Electronic
Default	Swing	Swing
Other	Locked Yielding	-
Hight	263mm	296mm
Weight	1,278g	1,375g

NEW FEATURE: MODE SWITCHING LEVER

- Useful for practicing the yielding function.
- Useful for descending slopes and stairs.
- Easily switchable with a lever for quick



THE MRS (MECHANISM OF REACTION FORCE SENSING) SYSTEM

- It mechanically detects floor reaction force and sets hydraulic resistance to be ON or OFF.
 - When floor reaction force exists at the heel side from the sensing point, hydraulic resistance is turned on.
 - When it exists at the toe side, the hydraulic resistance is turned off.
- =>This system makes it easy to use the stance-phase control with little force.



Hydraulic rotary damper
 A : Hydraulic resistance adjusting plug
 B : Hydraulic sensitivity adjusting plug
 Pneumatic cylinder
 C : Flexion resistance
 D : Extension resistance (Cushion valve)

