

# KNEE COMPARISON OVERVIEW



Manufacturer	Nabtesco	Nabtesco	Ossur	Otto Bock	Freedom Innovations	Endolite
Model	Allux	Hybrid Knee NI-C311	Rheo-Knee 3	C-Leg 4	Plie 3	ORION 3
Weight	1,510g (pyramid) 1,500g (threaded)	1,390g	1,610g	1,240g	1,235g	1,500g
Height	294mm (pyramid) 288mm (threaded)	309mm (pyramid) 3033mm (threaded)	265mm	289mm w/minimum tube adapter	235mm (pyramid) 223mm (threaded)	251mm (pyramid) 258mm (threaded)
Max. Weight Limit	275lbs. for up to K3, 220lbs. for K4	275lbs. for up to K3, 220lbs. for K4	300lbs.	300lbs.	275lbs. for K3, 220lbs. for K4	125kg for K3, 100kg for K4
Max. Knee Flexion	155°	140°	120°	130°	125° (Thread Head 117°)	130°
Swing Phase Control	Hydraulic controlled by Microprocessor	Pneumatic controlled by Microprocessor	Magnetic fluid controlled by Microprocessor	Hydraulic controlled by Microprocessor	Hydraulic controlled by Microprocessor	Pneumatic controlled by Microprocessor
	Automatically adjusted in accordance with the Knee angle	Max. 10 different speed stage is available in accordance with patient walking speed	Optimized by artificial intelligence function	Dynamic control of heel rise, strong extension assist	In accordance with the speed of knee angle, the swing is controlled	Programming button which can be adjusted by users is attached on the top of the knee
Stance Phase Control	Hydraulic controlled by Microprocessor	Hydraulic controlled by Mechanism Reaction-force Sensing ( MRS system)	Magnetic fluid controlled by Microprocessor	Hydraulic controlled by Microprocessor	Hydraulic controlled by Microprocessor	Hydraulic controlled by Microprocessor
	Safety lock feature (standing mode)	Rotary hydraulic Adjustable sensing position	Optimized by artificial intelligence function	Dynamic Stance, Standing Mode	Sensor is added for sensing ground reaction force	Adjustable Dynamic Stance, Standing support mode, separate yield rate for stairs
Battery Life	Approx. 4 days Rechargeable	2 years Non-rechargeable	2-3 days Rechargeable	Approx. 2 days Rechargeable	1-2 days Interchangeable, Rechargeable	2-3 days Rechargeable
When Battery Is Empty	Selective, high resistance or free	Same stance phase control. Still walkable with normal pace	Free, with manual lock	High resistance	No swing phase	No swing phase
Programming by CPO	PC Wireless	Programming Unit, Wire, Connection Cable	PC Software, App, Bluetooth	PC Software, Wire, Bluetooth	PC Software, Bluetooth	PC Software, Bluetooth
Adjustment by users	Remote (5 modes available)	No	No	MyModes via Android App	Manual adjustment of all resistance settings	3 modes via buttons on knee
Default State	Adjustable	Swing	Low Resistance	High Resistance	High Resistance	High Resistance
Gait Data	2 yrs gait speed data	No	Yes	No	Cadence Report, Total Steps	No
Water Resistance	Weather proof	No	Weather proof	Weather proof	Full Submersion, 1m @ 30 minutes	Weather proof
Unique Features	4 modes, polycentric, adjustable default state, long term data	MPC Pneumatic Swing. Mechanical Hydraulic Stance, 1yr battery life	User Training Program, unweighted free-swing	MyModes via Android App	Removable batteries, manual adjustments	Mode Switch on knee, Adjustable Progressive Stance Resistance
On/Off Switch	Yes	No	Yes	No	Battery Removal	No
Manual Lock	No	No	Yes	No	No	Yes
L Codes	L5613, L5856, L5845, L5848	L5828, L5840, L5845, L5857	L5828, L5845, L5848 L,5856, L5925	L5828, L5845, L5848, L5856	L5828, L5845, L5848, L5856	L5828, L5845, L5848, L5856

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Manufacturer	Proteor	Proteor	Otto Bock	Ossur	Ossur	Ossur	Ossur
Model	NK6+L Symphony	hyTrek	3R60	Total Knee TK2000	Total Knee TK2100	OH5	OH7
# of Axes	6-axes	Single	5-axes	7-axes	7-axes	5-axes	5-axes
Weight Rating	275lbs.	330lbs.	275lbs.	220lbs.	275lbs.	220lbs.	300lbs.
Knee Weight	890g /940g w/lock	1265g (pyramid) 1285g (threaded)	845g	690g	900g	830g	1065g
Knee ROM	170°	120°	175°	160°	160°	150°	150°
Length	197mm	232mm	171mm	173mm	175mm	199mm	201mm
Swing Phase Control	Hydraulic w/ adjustable extension assist	Hydraulic w/ adjustable swing phase control	Hydraulic	Hydraulic w/ adjustable extension assist	Hydraulic w/ adjustable extension assist	Hydraulic w/ adjustable extension assist	Hydraulic w/ adjustable extension assist
Stance Phase Control	Stance Flexion Adjustable by screw – Optional Lock	Hydraulic Manual Lock	Stance Flexion adjustable by screw	Stance Flexion adjustable by bumper and shim	Stance Flexion adjustable by bumper and shim	Stance Flexion adjustable by bumper	Stance Flexion adjustable by bumper
L-Codes	L5814, L5845, L5848, L5850, L5925	L5828, L5850, L5925, L5845	L5814, L5845, L5848	L5814, L5845, L5850	L5814, L5845, L5850	L5814, L5845, L5850	L5814, L5845, L5850



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RUSH Foot HiPro