

Basko
Healthcare

Swing Phase Lock 2

Orthotic Knee Joint



COMPENSATING FUNCTIONAL RESTRICTIONS DUE TO NEUROLOGICAL CONDITIONS

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Swing Phase Lock 2

Orthotic Knee Joint

Intended use: quadriceps insufficiency

Functional restriction according ICF:

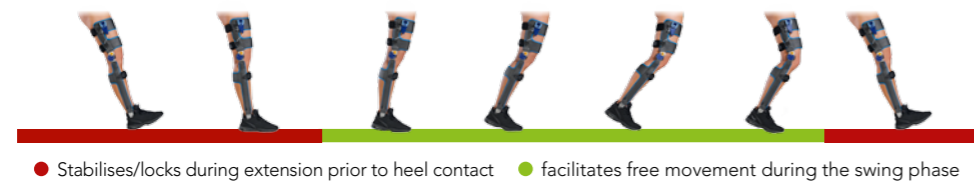
Joint mobility Joint stability **Muscle strenght** Muscle tone Movement pattern while walking



Knee stability with quadriceps insufficiency

The Swing Phase Lock 2 is the ideal knee joint system for orthoses for quadriceps insufficiency (complete or partial failure of the knee extension function). The Swing Phase Lock 2 (SPL2) uses a simple internal pendulum mechanism to lock and unlock the knee depending on the angle of the joint in the sagittal plane. During gait, the device locks just prior to heel strike for support during stance and unlocks the knee at heel off in preparation for swing. This action is intended to mimic the normal physiologic action of the knee extensors. Because the mechanism is position dependent, it does not rely on heel loading or cabling as in other designs. This allows for a more normal gait pattern and prevents circumduction or hip hiking commonly seen in standard KAFO's.

Swing Phase Lock 2



Product functionalities

- Unlocks during Swing Phase
- Locks during Stand Phase prior to heel contact
- 4 operation modes
 - Automatic Lock/Unlock
 - Manual Unlock
 - Manual Lock
 - Free Motion

Benefits in achieving therapy goals

- Walk stability for the patient
- Less energy consumption
- No circumduction
- No hip hiking

Indications / Diagnosis

- Apoplexy (CVA) (ICD10: I64)
- Multiple sclerosis (ICD10: G35)
- Myopathy (ICD10: G72.9)
- Paralysis (ICD10: G83.9)
- Paresis (peripheral) (ICD10: G83.9)
- Poliomyelitis (ICD10: A80)

Contraindications

- Flexion contracture > 10° (monolateral joint) (ICD10: M24.59)
- Flexion contracture > 5° (monolateral joint) (ICD10: M24.59)
- Hip contracture (ICD10: M24.59)
- Patient weight > 100 kg (monolateral joint)
- Spasm (ICD10: R25.2)
- Tubersit orthosis
- Valgus failure position (monolateral joint) (ICD10: M21.00/Q74.9)
- Varus failure position (monolateral joint) (ICD10: M21.10/Q74.9)



Features

- Two locking positions in flexion at 0° and 15°
- Operation independent of ground reaction forces or ankle movement
- Upright connection: 19 mm
- Weight limitation:
 - 100 kg with monolateral use
 - No limitation in combination with medial free motion joint
- Material:
 - SPL 2 joint: housing: stainless steel; pendulum unit; brass; joint cover: ABS plastic
 - SPC joint: housing: stainless steel; joint cover and pin: ABS plastic
 - Satellite: housing: ABS plastic; inner cable; stainless steel; outer cable: Teflon

A complete prepeg carbon fiber orthosis

We also offer workshops the possibility to order a complete prepeg carbon fiber orthosis with integrated SPL2 knee joint. Detailed information and ordering information can be obtained from our customer service or visit our website at basko.com.



Size chart

Article number*	Article number**	Side
IQ200L	IQ250L	left
IQ200R	IQ250R	right

*Swing Phase Lock 2 bilateral orthotic knee joint (incl. SPC)

**Swing Phase Lock 2 monolateral orthotic knee joint

Accessories

Article number	Article description
IQ150	Alignment unit
IQ161	Lamination Stirrup
029860	Lamination Dummy Kit
IQ023516	Upright Kit (aluminum, length 450 mm, width 20 mm)
IQ023616	Upright Kit (stainless steel, length 450 mm, width 20 mm)
010872	Double Action ankle joint (with spring, width 20 mm)
020888	Double Action ankle joint (with pin, width 20 mm)
010872	Double action ankle joint caliper plate (width, 19 mm)

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