

Swing Phase Lock 2

Orthotic knee joint



Basko
Healthcare



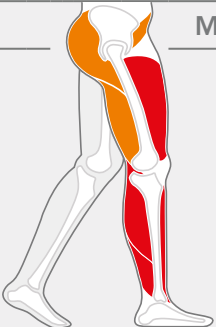
Swing Phase Lock 2

Orthotic knee joint

The Swing Phase Lock joint is designed for users who have difficulty controlling the knee during stance phase as in the situation of insufficiency of the knee extensors.

This creates an unstable and unsafe gait pattern. Usually this also results in an asymmetric gait pattern with an increase in energy consumption. The SPL joint ensures, independent of any load, a locked knee prior to heel-strike and disengages automatically at the end of stance phase. This allows the user to learn to walk again with confidence, while the gait pattern approaches normal gait more closely by improving energy consumption, symmetry, gait velocity and reducing compensatory movements.

Functional selection criteria*

MRC-scale	Function evaluation**	Score
 <p>0 - 4</p>	Range of Motion	● ● ● ● ○
	M-L stability	● ● ● ● ●
	A-P stability	● ● ● ● ●
	Dorsiflexion support	● ● ● ● ●
	Spasticity control	● ● ● ● ●
	Proximal control	● ● ● ● ●

* The chart above is for reference only; the SPL hinge can be used for a wide range of indications.

** Function evaluation refers to an orthosis.

Features

- Locking at 0° and in 15° flexion (safety stop)
- Operation independent of ground reaction force/ankle movement
- Connection to system bars: 19 mm
- Body weight limitation:
 - < 100 kg: unilateral and bilateral orthotic design possible
 - > 100 kg: only bilateral orthotic design possible

Product functionality

- Compensating low muscle strength
- Free knee movement during the swing phase
- Knee locking during stance phase before heel strike
- 3 operation modes:
 - Mode 1: automatic locking and unlocking
 - Mode 2: permanent unlocking
 - Mode 3: permanent locking



Mode 1



Mode 2



Mode 3

Indications

The SPL joint is indicated for all neurological and orthopaedic knee disorders associated with total or partial impairment of knee extensors and knee instability, as may be the case with:

- Apoplexy
- Multiple sclerosis
- Myopathy
- Paralysis
- Paresis (peripheral)
- Poliomyelitis

Contraindications

- Knee flexion contracture > 5°
- Hip flexion contracture
- Unilateral orthotic design at a body weight > 100kg
- High spasticity around the knee
- Tubercular Orthosis
- Unilateral orthotic design with genu varum or genu valgum

Knee stability in case of insufficiency of knee extensors

The Swing Phase Lock 2 is the ideal knee joint for orthoses in case of insufficient knee extensors. No ground reaction force is required for locking. The Function Unit automatically locks and unlocks based on the angle the Orthosis makes to the body center projection. With this ingenious system the joint, when extended, locks even before heel contact and automatically unlocks prior to swing phase without the use of any electronics. The SPL joint is available in two versions with or without a companion joint for bilateral or unilateral orthotic designs.

Swing Phase Lock 2



Let your patient experience the efficiency first

We recommend at all times to first conduct a trial session with the candidate patient. A trial session provides a good insight whether the intended objectives can be achieved, even in complicated cases with hypertonia, spasticity and excessive genu valgum, varum or genu recurvatum. Basko Healthcare has several trial orthoses available for this purpose. Our product specialists will be happy to assist you in carry out a trial session.

Have a complete prepeg KAFO custom made?

Basko Healthcare offers the possibility to manufacture a complete custom made KAFO out of prepeg with the SPL2 joint. Detailed information and order details can be obtained from our customer service or visit us at basko.com.

SPL 2 prepeg KAFO (bilateral)



SPL 2 prepeg KAFO (bilateral knee, unilateral ankle)



SPL 2 prepeg KAFO (unilateral)

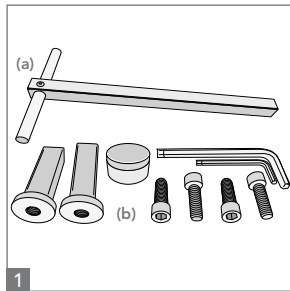


Size chart SPL 2 orthotic knee joint

Item number *	Item number **	Side	UOM
IQ200L	IQ250L	left	Each
IQ200R	IQ250R	right	Each

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

Accessories



1 SPL 2 Alignment unit



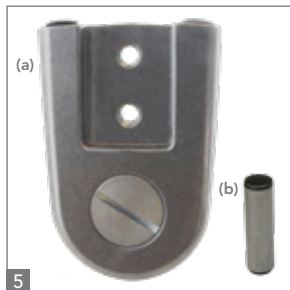
2 SPL 2 Lamination Stirrups



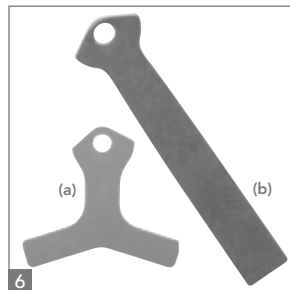
3 SPL 2 Lamination Dummy Kit



4 SPL 2 Upright Kit - 19 mm



5 Double Action Ankle Joint - 19 mm



6 Double action stirrups - 19 mm



7 SPL 2 Refurbish Kit



8 SPL 2 Knee Extension Assist

Accessories SPL 2 Knee Joint

Nr.	Product description	Item number	UOM
1a	T-Bar	AK-100	Each
1b	Swing Phase Lock Alignment Unit	AK-101	Set
2a	Lamination Stirrup (stainless steel, lenght 100 mm, width 19 mm, thickness 4 mm)	IQ161	Each
2b	Lamination Stirrup (stainless steel, lenght 130 mm, width 19 mm, thickness 6 mm)	IQ162	Each
3	SPL-/SPC Lamination Dummy Kit	IQ200L-D/R-D	Set
4	Upright Kit (aluminum, lenght 450 mm, width 19 mm)	IQ023516	Set (4 uprights)
4	Upright Kit (stainless steel, lenght 450 mm, width 19 mm)	IQ023616	Set (4 uprights)
5a	Double Action Ankle Joint (with springs, 19 mm channel)	SLM-2825-A	Each
5b	Motion Limiter (pin) for Double Action Ankle Joint	Z995026	Each
6a	Split Y Double Action Ankle stirrup (width, 19 mm)	SL2810-A-Y	Each
6b	Straight Double Action Ankle stirrup (width, 19 mm)	SL2960-A	Each
7	SPL 2 Refurbish Kit	IQ200-RK	Set
8	Knee Extension Assist	024900	Each

For more information about accessories and spare parts visit basko.com



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