

**For more security
and reliability**

– E-MAG Control –



Electronically Controlled Joint System

The E-MAG Control features a combination of electronics and mechanics that gives patients that decisive plus for their everyday movements throughout the whole day. By means of a remote control, patients can unlock the orthotic knee joint securely, even if limited in movement or dependent on crutches. The remote control can be integrated into a crutch handle in addition to its hand-held version. The insertion into the crutch handle can be done without tools, although only a certain type of crutches can be used for this purpose. The patient can thus support him or herself on both arms at all times.

In addition to the remote control, the electronics unit features feedback functions. This feedback provides more safety when locking and unlocking the orthotic joint. Selectively adjustable signals inform the patient on the current state of the joint. For example, when standing up, the system will signify that the joint is locked in secure position. This allows the patient to rely on the support of his or her orthosis with full confidence.

Furthermore, the system or joint unit is designed to protect the whole mechanism against external influences. Contrary to usual locks, the lock is completely sealed off from external influences such as impacts, dirt or clothing.

Thanks to the closed and rounded off design of the joint, joint protectors are not necessary. Clothing can no longer be damaged by getting caught in the joint mechanism.



E-MAG Control

Function

The electronic control with feedback function enables your patient to lock and unlock the orthotic joint. Optionally adjustable profiles inform the patient on the present state of the joint. In this way, the E-MAG Control gives patients that decisive plus in security for their everyday movements throughout the whole day. Even in cases of limited movement and dependency on forearm crutches, patients can support themselves at all times on both arms while activating the joint via remote control. Moreover, the closed system prevents the joint from opening due to external impact. Hence, patients will not have to fear feeling insecure in cramped rooms either.

Indication

Post-traumatic conditions, poliomyelitis, post-polio syndrome, failure or weakness of knee extensors. At present, the 17B200 E-MAG Control Joint is approved as a unilateral system for a body weight of up to 55 kg. If exceeding a weight of 55 kg, the E-MAG joint must be equipped with a 17B205 Medial Support that makes the joint admissible up to a weight of 85 kg.

Contraindication

An absolute contraindication is a knee flexion contraction above 10°.

It is of utmost importance that all patients are able to relieve and extend the orthotic joint in a standing position in order to lock/ unlock the locking mechanism.

Delivery condition

The E-MAG Control Joint System is supplied as a complete unit and includes its case. The medial support, the suitable bars and appropriate crutches can be ordered optionally. The case includes the complete, harmonized system, including battery charger, battery and suitable dummies for installation into the orthosis.



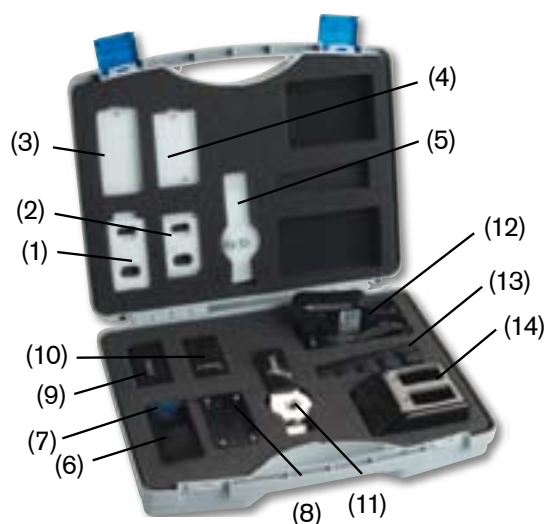
E-MAG Control

Article no.

17B200=L

17B200=R

Scope of Delivery



(1)	317X20	Dummy for battery
(2)	317X2=2	Dummy for electronics
(3)	317X20=1	Dummy for battery receptacle
(4)	317X2=1	Dummy for electronics receptacle
(5)	317X200=*	Dummy for knee joint
(6)	317Z20	Receptacle for battery
(7)	317R20	Lock unit for battery
(8)	317Z12 317E20	Receptacle for electronic control unit with power cord
(9)	317B20	Battery
(10)	317B2	Electronic control unit
(11)	30G11=[Right/Left]	E-MAG knee joint
(12)	757L16-1	AC Adapter for battery charger
(13)	317B10	Remote control
(14)	317L20	Battery charger
no.ill.	30Y121	Key for manual opening

Unilateral Joint Bar System Aluminum alloy

Article no.	Thickness	Width	Length
17LS1=2	7 mm	17.8 mm	1000 mm

For patients with a body weight of up to 55 kg, unilateral application of the E-MAG Control is possible. For patients with a body weight between 55 kg and 85 kg, a medial support is required.

Medial Support for a body weight between 55 kg and 85 kg Stainless steel



Includes lamination dummy

Article no.
17B205=L
17B205=R

Joint Bar System for Medial Support

Article no.	Thickness	Width	Length
605P8=20	5 mm	20 mm	2000 mm

Accessories



Forearm Crutches Aluminum alloy

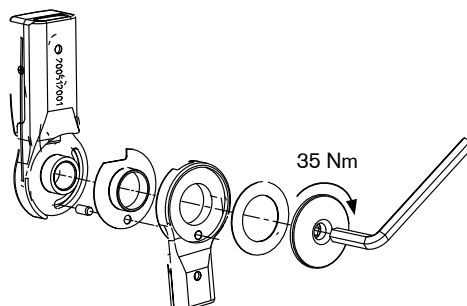
Article no.	Color
22K2	gray
22K4	blue

Forearm crutch approved for integration of the remote control device of the E-MAG Control

Information Material

647G310	Instructions for Use of Battery Charger
647G311	Service and Mounting Instructions Manual
647G312	Instructions for Use for the user
646S3=11.04GB	Info Sheet

Service Sets for the Maintenance of Joint Bearings



(1) 17BS200	for E-MAG Control Knee Joint
(2) 17BS205	for 17B205 Medial Support Joint

Spare parts for E-MAG Control



(3)

Attention! Please always indicate the serial number of the entire E-MAG when ordering spare parts, especially when ordering electronic components (see Fig. 3).

30G11=L	Knee joint for E-MAG Control, complete, with electric lock unit
30G11=R	
317X200=L	Dummy for knee joining
317X200=R	
317B20	Interchangeable battery
317L20	Battery charger
757L16-1	AC adapter for battery charger
317B10	Remote control
317B2	Electronic control unit
Attention! The remote control as well as the electronic unit are programmed to the existing system with the aid of the serial number of the entire E-MAG. Therefore, please always indicate this number.	
317E2	Electronics cable
317E20	Battery connection cable with ratchet unit
317Z12	Electronics receptacle
317Z20	Battery receptacle
30Y121	Key for manual opening of the knee joint



Sensor Walk™ Electronic Stance Control KAFO

Function

The Sensor Walk Electronic Stance Control KAFO incorporates the Unilateral Joint System bars. This unique KAFO is powered by a lithium-ion battery that powers the knee joint for approximately 15,000 steps, the equivalent of one full day before it needs recharging. The easy-to-use charger is included.

This custom fabricated KAFO is fabricated by Otto Bock's experienced team of orthotic technician. You can also select either an articulated or fixed ankle joint.

Patient Indications

The Sensor Walk is intended for patients who exhibit weak or absent quadriceps, or knee instability in the sagittal plane while bearing weight during the stance phase of the gait cycle. Patients should be able to exhibit a steppage gait and have hip flexor strength of at least Grade 3. Step length over level ground should exceed the length of the opposing foot. Patients must have the muscle strength in their torso or pelvis required to swing the Sensor Walk forward while they are walking.



Style	Right	Left
Laminated	17B500=R-L300	17B500=L-L300

For an order form, call 877.FAB.OTTO (877.322.6886) or visit www.ottobockus.com.