

Otto Bock®

QUALITY FOR LIFE



KAFO Selection Guide

Sensor Walk™

E-MAG Active

FreeWalk™

Unilateral Joints



KAFO Selection Guide

This KAFO Selection Guide is designed as a basic tool for identifying the optimal Knee-Ankle-Foot Orthosis for a variety of patients. This guide is not intended to supplant the need for individual clinical evaluation. However, it is a useful tool in evaluating which patient indications are appropriate for select Otto Bock KAFOs.

Find out more about this selection guide by calling your local Sales Representative or one of our Certified Orthotists at 800.328.4058.

	Weight	Joint Range of Motion			Muscle Strength*			Joint Deviations**	
		Hip	Knee	Ankle	Hip	Knee	Ankle	Knee Valgum/Varum	Ankle Valgus/Varus
Sensor Walk	Up to 300 lbs (136 kg)	Accommodates full R.O.M.	Up to 15° knee flexion contracture	Accommodates full R.O.M. No minimum patient requirements	Flex 3-5 Ext 0-5	Flex 0-5 Ext 0-5	Flex 0-5 Ext 0-5	Accommodates up to 10° valgum/varum	No minimum patient requirements
E-MAG Active	Up to 187 lbs/85 kg	Accommodates full R.O.M.	Up to 15° knee flexion contracture with dorsal stop at ankle	Accommodates full R.O.M. No minimum patient requirements	Flex 3-5 Ext 3-5	Flex 0-5 Ext 0-5	Flex 0-5 Ext 0-5	Accommodates up to 15° valgum/varum. Patient must generate extension moment in terminal stance.	No minimum patient requirements
FreeWalk	Up to 265 lbs (120 kg)	Accommodates full R.O.M.	Up to 10° knee flexion contracture	Accommodates full R.O.M. Patient needs minimum 10° passive R.O.M.	Flex 3-5 Ext 3-5	Flex 0-5 Ext 0-5	Flex 0-5 Ext 0-5	Accommodates up to 10° valgum. Does not accommodate varum	Accommodates up to 10° valgus/varus
Unilateral Joint	Up to 350 lbs (159 kg) (Double up-right configuration) or Up to 220 lbs (100 kg) (Unilateral configuration)	Accommodates full R.O.M.	Up to 10° knee flexion contracture	Accommodates 25° R.O.M. No minimum patient requirements	Flex 0-5 Ext 0-5	Flex 0-5 Ext 0-5	Flex 0-5 Ext 0-5	Accommodates up to 10° valgum/varum	Accommodates up to 10° valgus/varus

*Based on Kendall and Kendall scale presented in "Muscle Testing and Function," Williams and Wilkins Co., ©1971. Five-point grading system: 5 = Motion against gravity, with full resistance; 4 = Motion against gravity, with some resistance; 3 = Motion against gravity, with no resistance; 2 = Motion, with gravity omitted; 1 = Some muscle contractility with no joint motion; 0 = No muscle contractility.

**Indicates whether the device accommodates the degree of corrected joint deviation, from anatomical neutral position.

Sensor Walk™

E-MAG Active

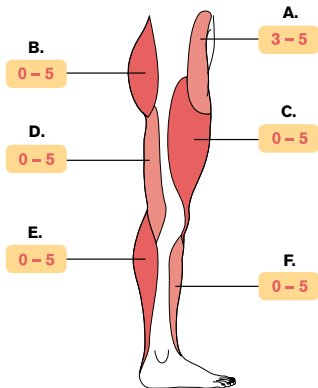
FreeWalk™

Unilateral Joints



Sensor Walk™ 17B500

Ideal for patients that present with flaccid paralysis/paresis of the knee extensor(s) and hip extensor(s). For patients who experience intermittent lack of full knee extension that varies from one step to another, and desire stance control capability on uneven terrain or ramps. Electronic Stance Control to help achieve the ultimate degree of stability. Infinite locking positions enable the joint to lock at any position and block flexion. Simplifies gait training because user doesn't need to reach full knee extension to unlock knee joint.



Weight Limit	Up to 300 lbs/136 kg
Hip Abductors	3-5
Hip ROM	Accommodates full R.O.M.
Knee ROM	Up to 15° knee flexion contracture
Ankle ROM	Accommodates full R.O.M. No minimum patient requirements
Knee Valgum/Varum	Accommodates up to 10° valgum/varum
Ankle Valgus/Varus	No minimum patient requirement

A. Hip Flexors
D. Hamstring

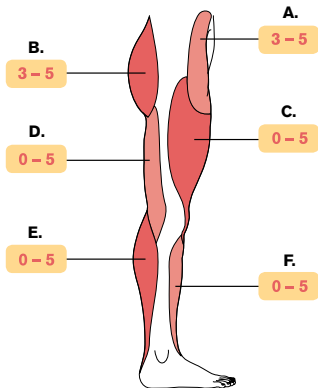
B. Hip Extensors
E. Plantarflexors

C. Quadriceps
F. Dorsiflexors



E-MAG Active 17B202

Ideal for patients that present with flaccid paralysis/paresis of the knee extensors coupled with limited ankle ROM. Patients require hip extensors and flexors of muscle grade 3 – 5. This brace can accommodate up to 15° knee flexion contracture in conjunction with a dorsal stop at the ankle. Contraindications include spasticity and hip flexors/extension strength less than muscle grade 3. E-MAG Active does not require a minimum ankle range of motion to achieve stance control. It uses a gyroscope to monitor the position of the user's leg to signal the knee joint to unlock for swing.



Weight Limit	Up to 187 lbs/85 kg
Hip Abductors	3-5
Hip ROM	Accommodates full R.O.M.
Knee ROM	Up to 15° knee flexion contracture in conjunction with dorsal stop at the ankle. Patient must generate extension moment in terminal stance.
Ankle ROM	No minimum patient requirements
Knee Valgum/Varum	Accommodates up to 15° valgum/varum
Ankle Valgus/Varus	No minimum patient requirement

A. Hip Flexors
D. Hamstring

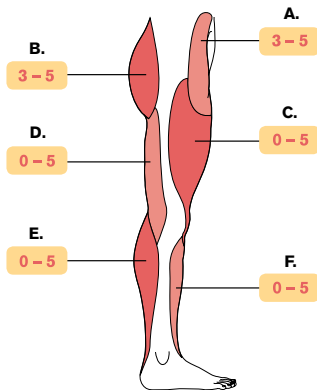
B. Hip Extensors
E. Plantarflexors

C. Quadriceps
F. Dorsiflexors



FreeWalk™ 170K1

Ideal for patients with flaccid paralysis/paresis of the knee extensor. This lightweight Stance Control Orthosis automatically locks with knee extension and unlocks for swing phase for secure, efficient gait. There are two sizes available depending upon the patient's weight. When used in conjunction with the 170D50 Triple Control Option, the FreeWalk can function as a free-swinging joint, a locked knee or a stance control orthosis.



Weight Limit	Up to 265 lbs/120 kg
Hip Abductors	3-5
Hip ROM	Accommodates full R.O.M.
Knee ROM	Up to 10° knee flexion contracture
Ankle ROM	Accommodates full R.O.M. Patient needs minimum 10° passive R.O.M.
Knee Valgum/Varum	Accommodates up to 10° valgum. Does not accommodate varum
Ankle Valgus/Varus	Accommodates up to 10° valgus/varus

A. Hip Flexors
D. Hamstring

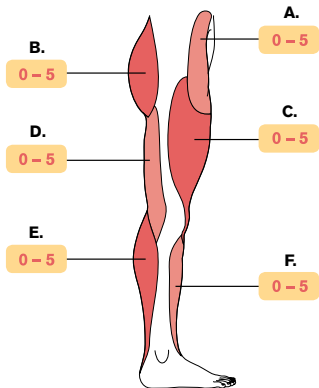
B. Hip Extensors
E. Plantarflexors

C. Quadriceps
F. Dorsiflexors



Unilateral Joints 17LK1 and 17LA1

Ideal for patients for whom a Stance Control Orthosis is contraindicated. For patients that weighs less than 220 lb/100kg (single-upright configuration), weight limit increases to 350 lb/159 kg in a double-upright configuration. With a single-upright configuration, bilateral users benefit from the absence of medial joints. Three sizes available based on body weight. Definitive KAFO is laminated and weighs less than conventional thermoplastic KAFOs.



Weight Limit	Up to 350 lb/159 kg (double-upright configuration) Up to 220 lb/100 kg (unilateral configuration)
Hip Abductors	0-5
Hip ROM	Accommodates full R.O.M.
Knee ROM	Up to 10° knee flexion contracture
Ankle ROM	Accommodates 25° R.O.M. No minimum patient requirement
Knee Valgum/Varum	Accommodates up to 10° valgum/varum
Ankle Valgus/Varus	Accommodates up to 10° valgus/varus

A. Hip Flexors
D. Hamstring

B. Hip Extensors
E. Plantarflexors

C. Quadriceps
F. Dorsiflexors

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