

KAFO Selection Guide

Matching products to clinical assessment



		C-Brace	E-MAG Active	FreeWalk	Unilateral Joint System	Aqualine
Summary	Material Number	17KO1	17B203	170K1	17LK3 / 17LA3	17PK1 /17PA1
	Features	<ul style="list-style-type: none"> World's first mechatronic stance and swing phase control orthosis Microprocessor-controlled sensor technology Dynamically controls and adapts to the entire gait cycle in real-time Practitioner and user apps for adjustments 	<ul style="list-style-type: none"> Electronic stance control orthosis with intelligent sensor system to improve gait Uses a gyroscope to monitor leg position to signal the joint to unlock for a smooth swing Unlock: Hip extension tilt and absence of knee flexion in terminal stance Relock: Extension to within 15 degrees for full extension 	<ul style="list-style-type: none"> Lightweight stance control KAFO (<2 lbs) Two sizes based on patient's weight Starter kit makes fitting easy Unlock: 10° of ankle range of motion toward dorsiflexion and absence of knee flexion moment in terminal stance Relock: Full extension of knee joint 	<ul style="list-style-type: none"> Definitive laminated KAFO For patients who cannot be fit with stance control orthoses Joint sizes matched to body weight Lightweight system knee joint with wedge lock, and ankle joint with continuously adjustable ROM between -20° and +20° 	<ul style="list-style-type: none"> Waterproof KAFO solution Knee joint with wedge lock and concealed pull-release cable for safety and unlocking Ankle joint has nine adjustment combination options Components are easy to clean, easy to dry, and fully serviceable
Joint ROM	Weight Limit	275 lbs	Single: 187 lbs Double: 220 lbs	265 lbs	Single: 220 lbs Double: 350 lbs	220 lbs
	Hip	Full ROM	Full ROM	Full ROM	Full ROM	Full ROM
	Knee	Up to 10° knee flexion contracture	Up to 10° knee flexion contracture with dorsal stop at ankle	Up to 10° knee flexion contracture	Up to 10° knee flexion contracture	Up to 10° knee flexion contracture
Muscle Strength*	Ankle	Full ROM No minimum requirements	Full ROM No minimum requirements	Full ROM Needs minimum 10° passive ROM	Accommodates 25° ROM No minimum requirements	Accommodates 25° ROM No minimum requirements
	Hip	Flexion: 3-5 (or compensatory motion)	Flexion: 3-5 Extension: 0-5 (or compensatory motion)	Flexion: 3-5 Extension: 0-5 (or compensatory motion)	Flexion: 0-5 Extension: 0-5	Flexion: 0-5 Extension: 0-5
	Knee	Flexion: 0-5	Flexion: 0-5 Extension: 0-5	Flexion: 0-5 Extension: 0-5	Flexion: 0-5 Extension: 0-5	Flexion: 0-5 Extension: 0-5
Joint Deviation**	Ankle	Plantarflexion: 0-5	Plantarflexion: 0-5 Dorsiflexion: 0-5	Plantarflexion: 3-5 Dorsiflexion: 0-5	Plantarflexion: 0-5 Dorsiflexion: 0-5	Plantarflexion: 0-5 Dorsiflexion: 0-5
	Knee (Valgum/Varum)	Up to 10° fixed valgum/varum or correctable within 10°	Up to 15° valgum/varum	Up to 10° valgum Does not accommodate varum	Single: Up to 10° valgum/varum Double: Up to 15° valgum/varum	Up to 15° valgum/varum
	Ankle (Valgus/Varus)	No minimum requirements	No minimum requirements	Up to 10° valgus/varus Invertor/evertor of Grade 4 required	Up to 10° valgus/varus	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. ***If hip flexor MMT is less than Grade 3, if user demonstrates reciprocal gait, fitting is possible using substitute patterns. Unilateral application only.