Maximize Your Options
Maximize Your Outcomes
Introduction to Stance Control

Unlike conventional KAFO’s, stance control KAFO’s allow for free knee flexion during swing phase while also providing knee stability in stance phase through an automatic locking mechanism.

Traditional KAFO’s only lock in full extension, which provides lower limb stability, but also causes patients to ambulate with gait deviations that may lead to other problems over time. Since traditional KAFO’s do not allow for knee flexion while the patient is ambulating, they also require more energy to use.

Stance control orthoses (SCO’s) on the other hand, allow the patient’s knee to flex during the swing phase of gait and block flexion in stance phase for stability. An SCO’s ability to provide knee flexion during swing phase allows patients to walk with less effort and a more symmetrical gait pattern.

SCO Benefits:
• Fewer gait deviations
• Provide a more symmetrical and fluid gait
• Less energy expenditure

Stride Stance Control Family

The Stride Family consists of a versatile group of interchangeable stance control orthotic knee joint systems known as the FullStride, SafetyStride and Stride4. All three systems are mechanical in nature and utilize a low-profile cabling system to automatically unlock at the end of stance phase. At the end of swing phase, the locking mechanism re-engages to provide knee stability for stance phase.

Each Stride component group provides specific and unique features that can be mixed and matched to address the specific needs of your patient. Since all Stride components are modular, you can quickly and easily change components and function within the same orthosis.

The Stride Family also includes a convenient, easy-to-use patient assessment and therapy tool called the PreStride.
Stance Control Program

Whatever your experience with stance control happens to be, we have put together a dedicated team to help you every step of the way. We offer everything from online support and training, to personal one-on-one training at your facility working directly with you and your patients. Our program offers educational in-services at your facility with one of our clinical education specialists, or online in-services via WebEx™ to help you get started. We can also offer additional support by lending you one of our new iPods with a built-in webcam. You can be linked through WebEx or FaceTime to one of our educators or technical staff members for real-time video calls to provide advice on evaluations, component selection, fitting and problem solving.

Get started today by calling our Stance Control Coordinator, Lori Costanzo.

Customer Service
Lori Costanzo
Stance Control Coordinator
Email: LCostanzo@beckerorthopedic.net
Phone: (800) 521-2192 ext. 3124

Education
Gary G. Bedard, CO, F.A.A.O.P
Clinical Education Specialist
Email: ggbsf@earthlink.net
Phone: (650) 349-0752

Engineering/Product Development
Mike Gallagher
Product Development Engineer
Email: MGallagher@beckerorthopedic.net
Phone: (800) 521-2192 ext. 3134

Technical Support/Central Fabrication
Rodger Broick
Technical Advisor
Email: RBroick@beckerorthopedic.net
Phone: (800) 521-2192 ext. 3150

Craig Born (Becker Oregon)
Director of Technical Services
Email: CBorn@beckerorthopedic.net
Phone: (800) 866-7522

Scan the QR codes above with your Smartphone to view our Stride videos.
The following chart can be used to help you determine your patient’s compatibility with our Stride stance control systems. We also recommend you use our PreStride Assessment Orthosis to qualify patients.

If you would like to speak with one of our stance control experts, please complete and fax the Patient Assessment Form on the following page to either Becker Orthopedic or Becker Oregon prior to scheduling your private consultation. It will serve as a common point of reference for us to understand your patient and help us assist you in selecting the best product to suit their needs.

<table>
<thead>
<tr>
<th>LOCKING ANGLE AND MECHANISM</th>
<th>FULLSTRIDE™</th>
<th>STRIDE4™</th>
<th>SAFETYSTRIDE™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requires full extension of the orthotic knee joint to engage positive lock</td>
<td>• 4 bar linkage mechanism provides stability when orthotic knee joint is fully extended • Adjustable extension stop • Integral Extension Assist • Optional Lock</td>
<td>• Positive lock engaged when orthotic knee joint is fully extended • Internal one way clutch bearing will resist knee flexion at any angle</td>
<td></td>
</tr>
</tbody>
</table>

| ANKLE R.O.M. (MINIMUM REQUIRED) | Sufficient (3-5°) ankle and/or forefoot movement to generate 4 mm of cable excursion | Sufficient (3-5°) ankle and/or forefoot movement to generate 4 mm of cable excursion | Sufficient (3-5°) ankle and/or forefoot movement to generate 4 mm of cable excursion |

| KNEE EXTENSION R.O.M. REQUIRED | Metal uprights can be contoured to accommodate contractures of 10° or less | • Metal uprights can be contoured to accommodate contractures of 10° or less • Adjustable extension stop allows fine tuning | • Metal uprights can be contoured to accommodate contractures of 10° or less • SafetyStride should be considered when patient fails to consistently achieve full knee extension prior to initial contact |

| ANKLE STRENGTH | No requirement | No requirement | No requirement |
| KNEE STRENGTH | No requirement | No requirement | No requirement |
| WEIGHT LIMIT | 220 lbs. (A) / 140 lbs. (B) | 220 lbs. | 220 lbs. |
| GENU VARUS/VALGUS | Yes | Yes | Yes |
| BI-LATERAL USE | Yes | Yes | Yes |

| KNEE JOINT ALIGNMENT | • Mobile varus and valgus deformities of the knee joint are not a contraindication. Knee joint should be realigned. Consideration should be given to KAFO design and rigidity to afford maximum control in coronal plane. • Fixed varus and valgus deformities less than 15 degrees require careful evaluation. Consideration should be given to KAFO design, side bar material selection and inherent rigidity to afford maximum control in coronal plane. • Fixed varus and valgus deformities greater than 15 degrees are a contraindication. |

| GENERAL HIP STRENGTH | • Ideally patient will demonstrate the ability to maintain hip stability while weight bearing with the knee stabilized in the Prestride Assessment Orthosis. |

| HIP EXTENSOR WEAKNESS | Mild: Stride4 with internal extension assist or FullStride with 75N GX-Assist Moderate: Stride4 with internal extension assist or FullStride with 125N GX-Assist Severe: FullStride with 175N GX-Assist, SafetyStride with 175N GX-Assist, or Stride4 with optional lock |

| HIP FLEXOR WEAKNESS | Mild: Stride4 with internal extension assist or FullStride with 75N GX-Assist Moderate: Stride4 with internal extension assist or FullStride with 125N GX-Assist Severe: FullStride with 175N GX-Assist, SafetyStride with 175N GX-Assist, or Stride4 with optional lock |

| HIP ABDUCTOR WEAKNESS | Mild: Stride4 with internal extension assist or FullStride with 75N GX-Assist Moderate: Stride4 with internal extension assist or FullStride with 125N GX-Assist Severe: FullStride with 175N GX-Assist or SafetyStride with 175N GX-Assist |

Note: Walking aid may be required in contralateral hand.
Patient Assessment Form

Today’s Date: ___________________ Prescribing Physician: ___________________
Facility: ___________________ Account # _________ Orthotist: ___________________
Street: ___________________ City: ___________________ State: _________ Zip: _________
Phone Number: ___________________ Fax Number: ___________________

DATES: Assessment: ___________________ Delivery: ___________________ Follow-up: ___________________
Patient ID: ___________________ Affected Side: Left □ Right □ Bilateral □
Height: ___________________ Weight: _________ Age: _________ Gender: M □ F □
Diagnosis: ___________________ DX Onset: ___________________

Gait Description: ___________________

Center of Mass (COM): Anterior □ Neutral □ Posterior □
Previous type of orthosis (ankle joints, knee joints, trimlines): ___________________

Type of walking aid: ___________________
Treatment goal: ___________________

Proprioception: ___________________
Sensation: ___________________

Other circumstances (e.g. upper extremity weakness): ___________________

RANGE OF MOTION (Limits, specified, WNL, contracture)

Hip: ___________________ Knee: ___________________ Ankle: ___________________
Genu valgum: _________ ° Genu varum: _________ ° Genu recurvatum: _________ °
Ankle valgus: _________ ° Ankle varus: _________ °

Foot Progression Angle: Toe in: _________ ° Toe out: _________ °

MANUAL MUSCLE TESTING

<table>
<thead>
<tr>
<th>MMT ISOMETRIC GRADING</th>
<th>Left Leg</th>
<th>Right Leg</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Holds test position against maximal resistance</td>
<td>Hip Flexors:</td>
</tr>
<tr>
<td>4+</td>
<td>Holds test position against moderate to strong pressure</td>
<td>Hip Extensors:</td>
</tr>
<tr>
<td>4</td>
<td>Holds test position against moderate resistance</td>
<td>Hip ABductors:</td>
</tr>
<tr>
<td>4-</td>
<td>Holds test position against slight to moderate pressure</td>
<td>Hip Adductors:</td>
</tr>
<tr>
<td>3+</td>
<td>Holds test position against slight resistance</td>
<td>Knee Extensors:</td>
</tr>
<tr>
<td>3</td>
<td>Holds test position against gravity</td>
<td>Knee Flexors:</td>
</tr>
<tr>
<td>3-</td>
<td>Gradual release from test position</td>
<td>Plantarflexors:</td>
</tr>
<tr>
<td>2+</td>
<td>Moves through partial ROM against gravity or moves through complete ROM gravity eliminated and holds against pressure</td>
<td>Dorsiflexors:</td>
</tr>
</tbody>
</table>
The PreStride is an evaluation tool that may be used in combination with a physical examination to assess candidacy for Stride stance control orthotic management.

The PreStride is a modular and fully adjustable stance control KAFO that may be fitted in a controlled clinical setting to most adults who are between 5’ 2” and 6’ 2” in height. The overall height of the orthosis is quickly and easily adjusted by releasing the spring loaded knobs located on the medial and lateral uprights. Calf and thigh bands are also easily adjusted for varying A-P depths.

The PreStride is available in two unique models: The original PreStride, Model 9007, and the PreStride4, Model 9008. The original PreStride, Model 9007, comes with FullStride™ stance control knee joints and an optional GX-Assist unit to accommodate individuals with significant weakness of hip musculature. The GX-Assist uses a pneumatic spring to assist in knee extension by mimicking the swing phase function of the quadriceps muscle group. Model 9007 also offers interchangeability with the SafetyStride™ stance control knee joint (sold separately), which has the ability of resisting knee flexion at any angle and does not require full 180° knee extension in order to lock.

The PreStride4, Model 9008, utilizes our new Stride4 stance control knee joints, which are comprised of a four bar linkage mechanism and offer (3) modes of operation: Stance control, free motion and locked with stance phase flexion. An integral extension assist spring housed within the midsection assists with knee extension, while an adjustable extension stop allows the practitioner to adjust and fine-tune the point at which the joint enters into its stable/locked state. A button on the Stride4 knee joint allows the practitioner to switch between stance control and locked modes of operation. When the lock option is selected and engaged by the clinician, the joint will allow approximately 3° of flexion to provide some shock absorption to the patient.

An additional advantage of the PreStride is that it may be used as an effective gait training tool during rehabilitation.

We offer a full range of technical and clinical support for the successful implementation of stance control technology into your practice. Please see page 3 to learn more about our comprehensive program and how we can help you get into stride with stance control.
FEATURES
- Fully adjustable and easy to work with modular design
- Can assess potential patients for FullStride, SafetyStride, Stride4 and GX-Assist
- Accommodates patients from 5’ 2” to 6’ 2” in height
- Double action ankle joints for gait optimization
- One-piece rigid footplate stirrup assembly
- Removable and disposable padding
- Delivered completely assembled

INDICATIONS
- Quadriceps weakness or lack of knee control as a result of:
  - Polio
  - MS
  - CVA
  - Femoral Nerve and Incomplete SCI
  - Inclusion Body Myositis
- Genu recurvatum

CONTRAINDICATIONS
- Patient weight greater than 220 lbs.
- Fixed varus or valgus deformity at the knee in excess of 15°
- Knee flexion contractures greater than 10°
- Knee hyperextension that cannot be controlled by the orthosis
- Substantial leg length discrepancy where the affected side is shorter
- Significant spasticity or tone in hip, knee or ankle musculature that is not controlled by the orthosis
- Insufficient ankle range-of-motion
- Significant impairment in the patient's cognition and/or motivation

AVAILABILITY
- The PreStride must be ordered directly through Becker Orthopedic

CODING
- The PreStride is not a prescription device and is designed for use in a controlled environment under clinical supervision as an assessment and therapy tool

PreStride Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9007-R</td>
<td>PreStride - Right</td>
</tr>
<tr>
<td>9007-L</td>
<td>PreStride - Left</td>
</tr>
<tr>
<td>9007-P</td>
<td>PreStride - Pair</td>
</tr>
</tbody>
</table>

PreStride4 Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9008-R</td>
<td>PreStride4 - Right</td>
</tr>
<tr>
<td>9008-L</td>
<td>PreStride4 - Left</td>
</tr>
<tr>
<td>9008-P</td>
<td>PreStride4 - Pair</td>
</tr>
</tbody>
</table>

Stride4™ Patent Pending
The FullStride is a mechanical stance control orthotic knee joint that utilizes a low-profile cabling system to automatically unlock at the end of stance phase. At the end of swing phase, when the orthotic knee joint reaches full extension, the locking mechanism re-engages to provide knee stability for stance phase.

When necessary, the stance control capability of the FullStride can be easily converted into a traditional automatic bail lock.

We offer a full range of technical and clinical support for the successful implementation of stance control technology into your practice. Please see page 3 to learn more about our comprehensive program and how we can help you get into stride with stance control.

**FullStride Ordering Information**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9006-A6</td>
<td>FullStride Kit with Aluminum Uprights</td>
</tr>
<tr>
<td>9006-A6S</td>
<td>FullStride Kit with Stainless Steel Uprights</td>
</tr>
<tr>
<td>9006-A6TI</td>
<td>FullStride Kit with Titanium Uprights</td>
</tr>
<tr>
<td>322*</td>
<td>Custom FullStride KAFO</td>
</tr>
</tbody>
</table>

*Use Stride Orthometry Forms - Pages 18-19

**Note:** All FullStride kits come with a heel cable receptor that is thermoformed into the UCBL during fabrication. If you would prefer to use a standard stirrup, or stirrup inserts with your FullStride, please refer to page 17 for available options.

![Shown with heel cable receptor.](image)
FEATURES
• Automatic, mechanical locking and unlocking
• Flexible, adaptive, modular design
• Durable, straightforward components
• Cost effective
• Interchangeable with the SafetyStride and Stride4
• Available with aluminum, stainless steel or titanium uprights

INDICATIONS
• Quadriceps weakness or lack of knee control as a result of:
  • Polio
  • MS
  • CVA
  • Femoral Nerve and Incomplete SCI
  • Inclusion Body Myositis
  • Genu recurvatum

CONTRAINDICATIONS
• Patient weight greater than 220 lbs.
• Fixed varus or valgus deformity at the knee in excess of 15°
• Knee flexion contractures greater than 10°
• Knee hyperextension that cannot be controlled by the orthosis
• Substantial leg length discrepancy where the affected side is shorter
• Significant spasticity or tone in hip, knee or ankle musculature that is not controlled by the orthosis
• Insufficient ankle range-of-motion
• Significant impairment in the patient's cognition and/or motivation

FABRICATION
• Can be fabricated into a variety of orthotic designs including conventional metal and leather, composites and prepreg. To ensure that optimal joint alignment and function is maintained throughout the gait cycle, we recommend the use of inherently rigid materials when designing your FullStride KAFO.
• We strongly recommend that you select an ankle joint configuration that limits dorsiflexion and allows for accurate alignment of the foot ankle complex in the sagittal plane

AVAILABILITY
• The FullStride can be purchased as a kit through Becker Orthopedic, or fabricated into a variety of custom KAFO designs by Becker Central Fabrication or Becker Oregon
• Use the Stride Orthometry Form for custom orders

CODING
• We recommend you consider coding the FullStride with a base code of L2005. The responsibility of accurate coding lies with the patient care facility that is billing for the product and service. The HCPCS Alpha-Numeric System is subject to revisions and periodic updates and should be consulted prior to billing.
The FullStride is also available in our “B,” or youth size for smaller adults and adolescents. Offering a 25% reduction in weight to enhance the clinical application, the “B” size FullStride gives you additional possibilities in offering stance control to your patients.

The FullStride is a mechanical stance control orthotic knee joint that utilizes a low-profile cabling system to automatically unlock at the end of stance phase. At the end of swing phase, when the orthotic knee joint reaches full extension, the locking mechanism re-engages to provide knee stability for stance phase. When necessary, the FullStride can also be easily converted into an automatic bail lock knee joint.

We offer a full range of technical and clinical support for the successful implementation of stance control technology into your practice. Please see page 3 to learn more about our comprehensive program and how we can help you get into stride with stance control.

FullStride B Size Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9006-B6</td>
<td>FullStride B Size Kit with Aluminum Uprights</td>
</tr>
<tr>
<td>9006-B6S</td>
<td>FullStride B Size Kit with Stainless Steel Uprights</td>
</tr>
<tr>
<td>322-B*</td>
<td>Custom FullStride B-Size KAFO</td>
</tr>
</tbody>
</table>

*Use Stride Orthometry Forms - Pages 18-19
Technical

FEATURES
- Automatic, mechanical locking and unlocking
- Flexible, adaptive, modular design
- Durable, straightforward components
- Cost effective
- Available with aluminum or stainless steel uprights

INDICATIONS
- Quadriceps weakness or lack of knee control as a result of:
  - Polio
  - MS
  - CVA
  - Femoral Nerve and Incomplete SCI
  - Inclusion Body Myositis
- Genu recurvatum

CONTRAINDICATIONS
- Patient weight greater than 140 lbs.
- Fixed varus or valgus deformity at the knee in excess of 15°
- Knee flexion contractures greater than 10°
- Knee hyperextension that cannot be controlled by the orthosis
- Substantial leg length discrepancy where the affected side is shorter
- Significant spasticity or tone in hip, knee or ankle musculature that is not controlled by the orthosis
- Insufficient ankle range-of-motion
- Significant impairment in the patient's cognition and/or motivation

FABRICATION
- Can be fabricated into a variety of orthotic designs including conventional metal and leather, composites and prepreg. To ensure that optimal joint alignment and function is maintained throughout the gait cycle, we recommend the use of inherently rigid materials when designing your FullStride B Size KAFO.
- **We strongly recommend that you select an ankle joint configuration that limits dorsiflexion and allows for accurate alignment of the foot ankle complex in the sagittal plane.**

AVAILABILITY
- The FullStride B Size can be purchased as a kit through Becker Orthopedic, or fabricated into a variety of custom KAFO designs by Becker Central Fabrication or Becker Oregon
- Use the Stride Orthometry Form for custom orders

CODING
- We recommend you consider coding the FullStride B-Size with a base code of L2005. The responsibility of accurate coding lies with the patient care facility that is billing for the product and service. The HCPCS Alpha-Numeric System is subject to revisions and periodic updates and should be consulted prior to billing.
The SafetyStride is a mechanical stance control orthotic knee joint that utilizes a low-profile cabling system to automatically unlock itself at the end of stance phase. The key feature of the SafetyStride is its ability to resist knee flexion at any angle. The SafetyStride does not require full 180° knee extension to resist knee flexion in stance phase.

Designed to unlock at terminal stance, an internal lever re-engages during swing phase to ensure knee joint stability prior to heel contact. Individuals who intermittently fail to reach full extension will now have the added security and stability they require while ambulating.

The SafetyStride works in conjunction with the FullStride and can be easily installed on a FullStride equipped KAFO.

We offer a full range of technical and clinical support for the successful implementation of stance control technology into your practice. Please see page 3 to learn more about our comprehensive program and how we can help you get into stride with stance control.

### SafetyStride Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9005-A6</td>
<td>SafetyStride Kit with Aluminum Uprights</td>
</tr>
<tr>
<td>9005-A6S</td>
<td>SafetyStride Kit with Stainless Steel Uprights</td>
</tr>
<tr>
<td>9005-A6Ti</td>
<td>SafetyStride Kit with Titanium Uprights</td>
</tr>
<tr>
<td>321*</td>
<td>Custom SafetyStride KAFO</td>
</tr>
</tbody>
</table>

*Use Stride Orthometry Forms - Pages 18-19

**Note:** All SafetyStride kits come with a heel cable receptor that is thermoformed into the UCBL during fabrication. If you would prefer to use a standard stirrup, or stirrup inserts with your SafetyStride, please refer to page 17 for available options.
Technical

FEATURES
• Automatic, mechanical locking and unlocking will resist knee flexion at any angle
• Designed to unlock at terminal stance, an internal lever will re-engage during swing phase ensuring knee stability prior to heel contact
• Interchangeable with the FullStride and Stride4
• Durable, straightforward modular design
• Available with aluminum, stainless steel or titanium uprights

INDICATIONS
• Quadriceps weakness or lack of knee control as a result of:
  ▪ Polio
  ▪ MS
  ▪ CVA
  ▪ Femoral Nerve and Incomplete SCI
  ▪ Inclusion Body Myositis
• Genu recurvatum
• Knee flexion contractures of 30° or less while weight bearing

CONTRAINDICATIONS
• Patient weight greater than 220 lbs.
• Fixed varus or valgus deformity at the knee in excess of 15°
• Knee flexion contractures greater than 10°
• Knee hyperextension that cannot be controlled by the orthosis
• Substantial leg length discrepancy where the affected side is shorter
• Significant spasticity or tone in hip, knee or ankle musculature that is not controlled by the orthosis
• Insufficient ankle range-of-motion
• Significant impairment in the patient's cognition and/or motivation

FABRICATION
• Can be fabricated into a variety of orthotic designs including conventional metal and leather, composites and prepreg. To ensure that optimal joint alignment and function is maintained throughout the gait cycle, we recommend the use of inherently rigid materials when designing your SafetyStride KAFO.
• **We strongly recommend that you select an ankle joint configuration that limits dorsiflexion and allows for accurate alignment of the foot ankle complex in the sagittal plane**

AVAILABILITY
• The SafetyStride can be purchased as a kit through Becker Orthopedic, or fabricated into a variety of custom KAFO designs by Becker Central Fabrication or Becker Oregon
• Use the Stride Orthometry Form for custom orders

CODING
• We recommend you consider coding the SafetyStride with a base code of L2005. The responsibility of accurate coding lies with the patient care facility that is billing for the product and service. The HCPCS Alpha-Numeric System is subject to revisions and periodic updates and should be consulted prior to billing.
The Stride4 is the latest addition to the Stride Family of interchangeable stance control knee joints. It contains many additional features to enhance patient function and like the FullStride and SafetyStride, the Stride4 is a mechanical stance control orthotic knee joint that utilizes a low-profile cabling system to automatically unlock at the end of stance phase. At the end of swing phase, when the orthotic knee joint reaches full extension, the locking mechanism re-engages to provide knee stability for stance phase. Cable adjustment clevises allow the practitioner to easily adjust the cable length to match the patient’s stride length.

The joint body of the Stride4 is comprised of a four bar linkage mechanism; the upper and lower aspects of the joint do not purely rotate about one fixed center of rotation. Instead, the joint motion involves some translation, in addition to rotation, to more closely mimic anatomical knee motion.

In the stance control mode of operation, the four bar linkage mechanism provides stability when the orthotic knee joint is fully extended. An integral extension assist spring housed within the midsection assists with knee extension, while an adjustable extension stop allows the practitioner to adjust and fine tune the point at which the joint enters into its stable/locked state. If desired, the extension stop can be fully adjusted to eliminate the stability feature to facilitate free motion.

A button on the Stride4 allows the patient to switch between locked and stance control modes of operation. This feature provides the patient with the option of locking the joint should they desire. When the lock option is selected and engaged by the patient, the joint will allow approximately 3° of flexion to provide some shock absorption to the user.

We offer a full range of technical and clinical support for the successful implementation of stance control technology into your practice. Please see page 3 to learn more about our comprehensive program and how we can help you get into stride with stance control.

### Stride4 Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMB-C063-A6</td>
<td>Stride4 Kit with Aluminum Uprights</td>
</tr>
<tr>
<td>LMB-C063-A6S</td>
<td>Stride4 Kit with Stainless Steel Uprights</td>
</tr>
<tr>
<td>LMB-C063-A6TI</td>
<td>Stride4 Kit with Titanium Uprights</td>
</tr>
<tr>
<td>323*</td>
<td>Custom Stride4 KAFO</td>
</tr>
</tbody>
</table>

*Use Stride Orthometry Forms - Pages 18-19
Technical

FEATURES
- 3 operation modes: Stance control, free motion and locked with stance phase knee flexion
- 4 bar linkage mechanism to afford stability and mimic anatomical knee motion
- Integrated extension assist
- Adjustable extension stop to fine tune knee stability
- Free motion option
- Durable, straightforward modular design
- Cost effective
- Interchangeable with the FullStride and SafetyStride
- Available with aluminum, stainless steel or titanium uprights

INDICATIONS
- Quadriceps weakness or lack of knee control as a result of:
  - Polio
  - MS
  - CVA
  - Femoral Nerve and Incomplete SCI
  - Inclusion Body Myositis
  - Genu recurvatum

CONTRAINDICATIONS
- Patient weight greater than 220 lbs.
- Fixed varus or valgus deformity at the knee in excess of 15°
- Knee flexion contractures greater than 10°
- Knee hyperextension that cannot be controlled by the orthosis
- Substantial leg length discrepancy where the affected side is shorter
- Significant spasticity or tone in hip, knee or ankle musculature that is not controlled by the orthosis
- Insufficient ankle range-of-motion
- Significant impairment in the patient’s cognition and/or motivation

FABRICATION
- Can be fabricated into a variety of orthotic designs including conventional metal and leather, composites and prepreg. To ensure that optimal joint alignment and function is maintained throughout the gait cycle, we recommend the use of inherently rigid materials when designing your Stride4 KAFO.
- **We strongly recommend that you select an ankle joint configuration that limits dorsiflexion and allows for accurate alignment of the foot ankle complex in the sagittal plane**

AVAILABILITY
- The Stride4 can be purchased as a kit through Becker Orthopedic, or fabricated into a variety of custom KAFO designs by Becker Central Fabrication or Becker Oregon
- Use the Stride Orthometry Form for custom orders

CODING
- We recommend you consider coding the Stride4 with a base code of L2005. The responsibility of accurate coding lies with the patient care facility that is billing for the product and service. The HCPCS Alpha-Numeric System is subject to revisions and periodic updates and should be consulted prior to billing.
MODEL GX-ASSIST
For individuals with significant weakness of hip musculature, the FullStride and SafetyStride may be ordered with a GX-Assist option that incorporates a pneumatic spring on the lateral or medial joint unit to assist in knee extension during the swing phase of gait. Available with your choice of a 75N, 125N (for standard applications), or 175N pneumatic spring, the GX-Assist can also be retrofit to existing FullStride and SafetyStride KAFO’s.

<table>
<thead>
<tr>
<th>Pressurization Force (N)</th>
<th>Torque (in-lbf)</th>
<th>Band Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>75N</td>
<td>17</td>
<td>Blue</td>
</tr>
<tr>
<td>125N</td>
<td>28</td>
<td>Green</td>
</tr>
<tr>
<td>175N</td>
<td>39</td>
<td>No Band</td>
</tr>
</tbody>
</table>

MODELS SLM-2825/ASLM-2825 MODULAR ANKLE JOINTS
When choosing an ankle joint to pair with one of our Stride systems, we strongly recommend you select one that limits dorsiflexion and allows for accurate alignment of the foot ankle complex in the sagittal plane.

Our modular Slim Line double action ankle joints are optimized with pins in the anterior channels and springs in the posterior channels to provide you with an appropriate ankle joint setup for use with our Stride systems. They are available in both stainless steel (SLM-2825) and aluminum (ASLM-2825) with either a 3/4” or 5/8” recess to accommodate our A and B size Stride uprights.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9006-GX-A</td>
<td>GX-Assist Add-On Kit for FullStride (3/16&quot; x 3/4&quot;)</td>
</tr>
<tr>
<td>9006-GX-B</td>
<td>GX-Assist Add-On Kit for FullStride B size (3/16&quot; x 5/8&quot;)</td>
</tr>
<tr>
<td>9005-GX-A</td>
<td>GX-Assist Add-On Kit for SafetyStride (3/16&quot; x 3/4&quot;)</td>
</tr>
</tbody>
</table>

Stride Ankle Joint Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Recess</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLM-2825-A</td>
<td>3/4”</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>SLM-2825-B</td>
<td>5/8”</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>ASLM-2825-A</td>
<td>3/4”</td>
<td>Aluminum</td>
</tr>
<tr>
<td>ASLM-2825-B</td>
<td>5/8”</td>
<td>Aluminum</td>
</tr>
</tbody>
</table>
## Accessories

### MODELS SC-SL2810/SC-SL2800 STRIDE STIRRUPS

To further increase your design options for our Stride stance control systems, we have developed two Slim Line double action stirrups that can be connected directly to the Stride cabling system. With these stirrup options, it is no longer necessary to use the heel cable receptor that comes with our FullStride and SafetyStride kits. Available in both a wide flange design with a 6” tongue (SC-SL2800), or as a Y stirrup insert (SC-SL2810).

**Stride Stirrups Ordering Information**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-SL2800-X</td>
<td>Stance Control Wide Flange Stirrup</td>
</tr>
<tr>
<td>SC-SL2810-A-Y</td>
<td>Stance Control Y Stirrup</td>
</tr>
</tbody>
</table>

### MODELS 9006-MD-A/LMB-C063-FD-A MOLDING DUMMIES

Molding dummies are available for the FullStride, SafetyStride and Stride4 knee joints. The FullStride and SafetyStride utilize the same, universal, nylon molding dummy.

Since the Stride4 knee joint does not have one fixed center of rotation, **we strongly recommend** using the Stride4 molding dummies for fabrication. The dummies have a 3/8” hole to mark knee center and are made of stainless steel. Stride4 dummies are left and right specific and may be ordered individually or in pairs.

**Molding Dummy Ordering Information**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9006-MD-A</td>
<td>FullStride / SafetyStride A Size Molding Dummy</td>
</tr>
<tr>
<td>9006-MD-B</td>
<td>FullStride B Size Molding Dummy</td>
</tr>
<tr>
<td>LMB-C063-FD-A</td>
<td>Stride4 Molding Dummy</td>
</tr>
</tbody>
</table>

### MODELS LA/LK LAMINATION UPRIGHTS

To assist you with laminating, we have also developed lamination uprights for use with our Stride stance control knee joints and modular double action ankle joints. Constructed entirely of stainless steel, our lamination uprights come in both A and B sizes to accommodate our A and B size modular knee and ankle joints.

**Lamination Upright Ordering Information**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Bar Width</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LK-A#7</td>
<td>3/4”</td>
<td>Proximal Upright</td>
</tr>
<tr>
<td>LK-A#8-L</td>
<td>3/4”</td>
<td>Distal Upright - Left</td>
</tr>
<tr>
<td>LK-A#8-R</td>
<td>3/4”</td>
<td>Distal Upright - Right</td>
</tr>
<tr>
<td>LK-B#7</td>
<td>5/8”</td>
<td>Proximal Upright</td>
</tr>
<tr>
<td>LK-B#8-L</td>
<td>5/8”</td>
<td>Distal Upright - Left</td>
</tr>
<tr>
<td>LK-B#8-R</td>
<td>5/8”</td>
<td>Distal Upright - Right</td>
</tr>
<tr>
<td>LA-A</td>
<td>3/4”</td>
<td>Ankle Joint Upright</td>
</tr>
<tr>
<td>LA-B</td>
<td>5/8”</td>
<td>Ankle Joint Upright</td>
</tr>
</tbody>
</table>
Today's Date: ______________________
Facility: ________________________________________________
Street: _________________________________________________
City: ______________________ State: _______ Zip:_________
Orthotist: ______________________ Phone #: _______________
PO #: ______________________ Delivery Date: _____________________

Diagnosis: __________________________________________________________
Age: _____________
Sex: ______ Ht: ______ Wt: ______
Patient: _____________________________________
Phone #: ______________________

Today's Date: _________________________

MEASUREMENTS: □ Inches □ Centimeters

Circumferences

- Waist Line
- Pelvic Line
- Trochanter
- Proximal Thigh
- Distal Thigh
- Calf
- Ankle Axis

Lengths

- Waist Line to Floor
- Pelvic Line to Floor
- Trochanter to Floor
- Ischial Tuberosity to Floor
- 30MM Distal to Perineum
- Knee Axis to Floor
- Knee Flexion Contracture
- Knee Axis to Floor
- Fibular Neck to Floor
- Ankle Axis to Floor
- Ankle Axis to Floor

Contraindications for all Stride Stance Control Systems:

- Insufficient ankle range-of-motion (3˚ - 5˚ required)
- Knee flexion contractures greater than 10˚
- Substantial leg length discrepancy where the affected side is shorter
- Weight greater than 220 lbs (A Size) - 140 lbs (B size FullStride only)

(If your patient is borderline, please contact one of our Clinical Education Specialists listed on Page 3 of the Stride Family Guide)

Ankle

- Varus □ Valgus
- Correct □ Do Not Correct
- Toe Out □ Toe In
  Degrees: ___________
  Heel Height: ___________

Knee

- Varum □ Valgum
- Correct □ Do Not Correct
  Degrees: ___________
- Hyperextended
- Knee Flexion Contracture
- Correct □ Do Not Correct

Additional Instructions (Ex. transfer paper):
Today's Date: __________________________

Facility: ____________________________

Street: ______________________________

City: ________________________________
State: _______ Zip:__________

Orthotist: ______________________

Diagnosis: _________________________________________________________

Age: _____________

Sex: ______ Ht: ______ Wt: ______

Patient: _____________________________________

Phone #: ___________________

Today's Date: _________________________

---

**LEG:**
- Left
- Right
- Bilateral

**MATERIAL:**
- Thermoplastic
- Metal and Leather
- Prepreg
- Laminated*

---

**THERMOPLASTIC/PREPREG OPTIONS**

<table>
<thead>
<tr>
<th>Plastic</th>
<th>Type</th>
<th>Thickness</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Natural</td>
<td>□ Polypropylene Prepreg (Becker only)</td>
<td>□ 3/16”</td>
<td>□ Anterior □ Proximal □ Medial</td>
</tr>
<tr>
<td>□ Black</td>
<td></td>
<td>□ 1/4”</td>
<td>□ Posterior</td>
</tr>
</tbody>
</table>

**FLARE/TAB**
- □ Anterior
- □ Medial
- □ Lateral

**MATERIAL OPTIONS**

**METAL AND LEATHER OPTIONS**

<table>
<thead>
<tr>
<th>Color</th>
<th>Closure</th>
<th>Condyle Pad</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Black</td>
<td>□ Hook &amp; Loop Leather Strap &amp; Buckle</td>
<td>□ Round (FullStride Only)</td>
<td>□ Calf Lacer</td>
</tr>
<tr>
<td>□ Beige</td>
<td></td>
<td></td>
<td>□ Leather Gauntlet</td>
</tr>
<tr>
<td>□ Smoked Elk</td>
<td></td>
<td></td>
<td>□ SS Footplate</td>
</tr>
<tr>
<td>□ Brown</td>
<td></td>
<td></td>
<td>(please provide cast)</td>
</tr>
<tr>
<td>□ White</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CASTER CORRECTION**
- □ Do not correct
- □ 90° PF/DF
- □ Correct Forefoot
- □ Correct Varus/Valgus

Heel Height __________ Finished Height of KAFO __________

**LINER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Thickness</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Aliplast</td>
<td>□ 1/8”</td>
<td>□ Thigh □ Posterior</td>
</tr>
<tr>
<td>□ Med-Density Pelite</td>
<td>□ 5/32”</td>
<td>□ Anterior □ Calf</td>
</tr>
<tr>
<td>□ Heavy-Density Pelite</td>
<td>□ 3/16”</td>
<td>□ Entire Orthosis □ Ankle Pad</td>
</tr>
<tr>
<td>□ Other</td>
<td>□ 1/4”</td>
<td>□ Other</td>
</tr>
</tbody>
</table>

**ANKLE JOINTS**
- □ Camber Axis Hinge®
- □ Modular Standard Action (M3025)

Size: □ A (Adult) □ B (Youth)

**ACTIVATION OPTION**

- □ Heel Cable Receptor
- □ Stirrup Inserts

---

**KNEE JOINT OPTIONS**

**FULLSTRIDE™**

(Select from each column below)

- □ FullStride™(9006)
- □ FullStride™ w/GX-Assist (9006-GX) 75N □ 125N □ 175N

- □ Aluminum
- □ Stainless Steel
- □ Titanium (3/16” x 3/4” only)

□ High Buff
□ Bead Blast

**SAFETYSTRIDE™**

(Select from each column below)

- □ SafetyStride™(9005)
- □ SafetyStride™ w/GX-Assist (9005-GX) 75N □ 125N □ 175N

- □ Aluminum
- □ Stainless Steel
- □ Titanium (3/16” x 3/4” only)

□ 3/16” x 3/4” (Standard)
□ High Buff
□ Bead Blast

**STRIDE4™**

(Select from each column below)

- □ Stride4™ (LMB-CO63)
- □ Aluminum
- □ Stainless Steel
- □ Titanium (3/16” x 3/4” only)

□ 3/16” x 3/4” (Standard)
□ High Buff
□ Bead Blast

---

**ADDITIONAL ADD-ONS**

- □ Tongue: □ AK □ BK
- □ Other:__________

**Note:** To optimize gait and enhance knee stability, special consideration should be given to ankle joint selection. We strongly recommend that you select an ankle joint configuration that limits dorsiflexion and allows accurate alignment of the foot ankle complex in the sagittal plane.

For clinical or technical support please see Page 3 of the Stride Family Guide for contact information.