Providing Orthopedic Solutions That Enhance Quality Of Life
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About Townsend & Thuasne

Founded in 1984 by a certified orthotist, Jeff Townsend, our company is recognized as a leading manufacturer of orthopedic devices that enhance mobility, function, and quality of life.

Townsend is now the headquarters for Thuasne North America, the USA subsidiary of Thuasne -- an international family-owned healthcare company founded in 1847. Elizabeth Ducottet and her children represent the fifth and sixth generations to own and operate Thuasne. Townsend was acquired by Thuasne in 2011 to gain a presence in the USA market, and to expand Thuasne’s product range to include rigid braces and more complex orthopedic devices.

Based in Bakersfield, in California’s central valley, Townsend has over 135 employees. Our staff is proud to fabricate cost competitive products MADE IN THE USA. Townsend’s business model is to fabricate and distribute superior medical devices to qualified providers, and to offer the industry’s best technical and service support. As part of our continuing commitment to customers, we do not bill insurance or Medicare -- avoiding any competitive or financial conflict of interest with the loyal medical providers who purchase our products.

Townsend manufactures:
- Custom, standard size and custom assembled off-the-shelf ligament knee braces
- Custom, standard size and custom assembled off-the-shelf OA knee braces
- Custom carbon graphite specialty knee braces (locking, polio, motocross)
- Custom carbon graphite KAFOs, AFOs, ankle and elbow braces
- Off-the-shelf rehabilitation devices (post-op knee and elbow braces, walking boots, and shoulder slings)
The Most Options For OA Bracing

Townsend Reliever Series Osteoarthritis knee braces provide adjustable three point corrective force to help maintain normal leg alignment and reduce the concentration of the patient’s body weight on the compromised side of the knee. Reliever Series braces benefit OA patients by reducing pain and slowing the continued degeneration of the knee joint. By incorporating exclusive anti-migration technology, patients are more likely to wear their OA knee brace on a daily basis and realize long-term benefits.

A vast range of custom, custom assembled and off-the-shelf models allow you to pick the most appropriate brace for each patient -- a brace that best accommodates the patient’s clinical needs, physical dimensions, and life-style.

Townsend fabricates single and dual hinge OA braces. The double upright models are recommended for patients who have OA in combination with knee instability. The single hinge braces provide a lighter, lower profile solution.

**Townsend is the only manufacturer that bridges the gap between OTS and custom braces. At no additional charge, our staff will "custom assemble" our Rebel Reliever, UniReliever or RelieverOne aluminum OA knee brace.** Because most OA patients have disproportional leg sizing, a "customized" brace can negate the need for a more expensive custom brace by allowing you to efficiently achieve a high quality fit. When ordering an OTS brace for a specific patient, simply provide leg circumferences six inches above and below the knee, and a medial-lateral width of the knee to minimize the need for any adjustments during the fitting procedure.

**Patented Corrective Force Technology**

Our patented adjustable corrective force technology includes the Townsend Loadshifter (Reliever Air, Premier Reliever and Rebel Reliever), Corrective Force Paddle (RelieverOne), and Adjustable Force Buttress (Premier Reliever1 and UniReliever). These exclusive features allow medical professionals to dial in the ideal amount of correction to maximize patient comfort and unloading benefits.

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**Standard Features (see page 9 for detailed descriptions) include:**

- Patented Townsend Motion Hinges that mirror the roll-and-glide movement of the knee.
- Patented Synergistic Suspension Strap that features unique attachment and angulation to capture the back and sides of the leg (medial-lateral and anterior-posterior) and utilize the calf muscle as a natural shelf.
- Patented anti-rotation technology incorporated into the tibia shell to keep the brace properly positioned on the limb and prevent brace rotation when correction is applied to the leg.
Premier Reliever & PR1

Routinely Prescribed For...
Patients who have moderate to severe medial or lateral unicompartment osteoarthritis. The double upright model is recommended for combination OA and ligament instability. The single hinge PR1 is ideal for lateral OA.

Braces Can Be Ordered...
• Custom from a cast, digital leg scan, tracing, CAS measurement device or new Custom Configuration System (photos)

Offered With These Standard Features...
• Custom Molded Solid Core Carbon Graphite Shells
• Patented Townsend Motion TM5+ Hinges (double upright)
• Patented Townsend Motion TM6 Hinge (single upright)
• Extension Stop Kit
• Patented Synergistic Suspension Strap
• Anti-Migration Strap Padding
• Rotation Control Tibial Shell Contour
• High Gloss Paint Or Powdercoat Finish

Available Options Include...
• 14, 15 And 16 Inch Shell Length
• Hinge Material -- Aluminum, Titanium Or Stainless
• Compression/Suspension Anti-Migration Package (double upright model)
• Flexion Stop Kit
• A Variety Of Colors

Corrective Force Technology & Shell Options

The Premier Reliever features Townsend’s patent Loadshifter for adjusting the angle of the thigh shell to increase the base correction built into the brace.

The PR1 features an adjustable force buttress that allows the patient to optimize counter force pressure. The buttress also improves brace suspension.

The Premier Reliever features a lightweight, low profile design that provides comfortable unloading and pain relief. This picture shows the optional C/S Package that enhances suspension.

Optional double band tibia for dual hinge Premier Reliever braces.

Optional single upright KAFO with leg extension and heel cup for rotary control or suspension.

See page 25 and 26 for ordering information.
Reliever Air & Reliever Air Lite

Routinely Prescribed For...
Patients who have moderate to severe medial or lateral unicompartiment osteoarthritis and/or combination OA and ligament instability. Ideal for patients requiring soft tissue containment and maximum unloading.

Braces Can Be Ordered...
- Custom from a cast or digital leg scan

Offered With These Standard Features...
- Custom Molded Laminated Carbon Graphite Shells
- Patented Townsend Motion TM5+ Hinges
- Extension Stop Kit
- Patented Loadshifter
- Patented Synergistic Suspension Strap
- Anti-Migration Strap Padding
- Anti-Rotation Tibia Shell Bolster (Reliever Air)

Available Options Include...
- Virtually Any Shell Length Over 13 Inches
- Hinge Material -- Aluminum, Titanium Or Stainless
- Full Figure Model For Soft Tissue Containment
- Flexion Stop Kit
- A Variety Of Colors Or Fabric Inlay

Corrective Force Technology & Shell Options
The Reliever Air and Reliever Air Lite feature Townsend’s patent Loadshifter for adjusting the angle of the thigh shell to increase the base level of corrective force built into the brace.

Optional single upright KAFO with leg extension and heel cup for rotary control or suspension.
Rebel Reliever

**Routinely Prescribed For...**
Patients diagnosed with mild to moderate medial or lateral OA, as well as patients who have OA in combination with ligament instability.

**Braces Can Be Ordered...**
- Standard OTS sizes S to XXL (tibia shell available in XS)
- “Customized” from 3 leg measurements
- Custom from a cast, digital leg scan, tracing, CAS measurement device or new Custom Configuration System (photos)

**Offered With These Standard Features...**
- Rigid Aircraft Aluminum Frame
- Patented Townsend Motion TM5+ Hinges
- Extension Stop Kit
- Patented Adjustable Loadshifters
- Patented Synergistic Suspension Strap
- Anti-Migration Strap Padding
- Rotation Control Tibial Shell Contour
- Powdercoat Finish

**Available Options Include...**
- Shell Length
- Compression/Suspension Anti-Migration Package
- PCL Strap
- Flexion Stop Kit
- A Variety Of Colors

**Corrective Force Technology**
The brace is fabricated with dual Loadshifter mechanisms for maximum adjustability. This brace can be used universally for medial or lateral OA. Medical professionals can shorten and/or lengthen the uprights to shift the thigh shell angle up to 18 degrees. Increasing corrective force at the proximal end amplifies the affect of the three-point pressure and makes the brace lower profile (at knee center) than other manufacturers’ OA braces.

See page 25 and 26 (custom), 27 and 28 (OTS) for ordering information.
Osteoarthritis Bracing

RelieverOne & UniReliever

Routinely Prescribed For...
Patients diagnosed with mild to moderate medial or lateral OA.

Braces Can Be Ordered...
- Standard OTS sizes XS to XXL (RelieverOne thigh shell available in XXXL)
- Custom assembled from 3 leg measurements
- Custom from a cast, digital leg scan, CAS measurement device or new Custom Configuration System (photos)

Offered With These Standard Features...
- Aircraft Aluminum Frame
- Patented Townsend Motion Hinge
- Extension Stop Kit
- Adjustable Correction
- Patented Synergistic Suspension Strap
- Anti-Migration Strap Padding
- Rotation Control Tibial Shell Contouring
- Powdercoat Finish

Available Options Include...
- Medial Or Lateral
- Shell Length
- Flexion Stop Kit
- Optional Colors

Adjustable Corrective Force Technology
The RelieverOne features an Adjustable Force Paddle at the proximal end of the brace. This paddle can be shifted to increase or decrease correction, and/or to optimize patient comfort. The paddle can also be angled to fit flush against the leg for even distribution of counter force pressure.

The UniReliever features an adjustable force buttress that allows the patient to optimize correction by tightening anterior and posterior thigh straps.
Active Reliever

Routinely Prescribed For...
- Unicompartment Osteoarthritis
- Articular Cartilage Defect Repair
- Meniscal Cartilage Repair
- Osteochondral Defect Repair

This Product Can Be Ordered...
- X-Small to XXX-Large
- Medial or Lateral OA
- Left or Right

Product Features...
- Breathable spacer fabric sleeve with posterior expandable Lycra panel
- Anatomically correct roll-and-glide Townsend Motion Hinge with adjustable ROM stops
- Semi-rigid, self-contouring nylon superstructure sewn into the sleeve
- Bendable bars for customization of the fit and counterforce
- Corrective Force Strap applies maximum counterforce at midstance phase of gait
- Patient friendly quick release buckles
- Open anterior thigh section for easy donning and doffing

Unique Features
- Adaptable patella buttress pad
- Interior thigh panel can be removed and trimmed for custom fitting
- Ergonomically designed quick release buckles make it easier for the patient to apply and remove the brace

Corrective Force Technology
The Active Reliever features a Corrective Force Strap that can be tensioned to optimize pain relief for various activities.
Exclusive Technology & Fabrication

Townsend’s goal is to assist you in optimizing the patient’s function, mobility and compliance. We offer medical professionals and their patients a wide range of custom, “custom assembled” and pre-sized bracing options. You can consider the patient’s clinical needs, activity level, physical size and unique leg shape to select the most appropriate brace model and options.

Custom bracing is Townsend's specialty. When we say custom, we mean custom. Custom knee braces are available in carbon graphite or more economical aircraft aluminum. Practitioners can ship a cast, E-mail a digital leg scan, or use one of our approved devices to provide the information needed to custom fabricate a patient’s brace.

In addition to offering off-the-shelf knee braces in standard sizes, Townsend is the ONLY manufacturer that effectively bridges the gap between OTS and custom braces. At no additional charge, our staff will custom assemble your patient’s aircraft aluminum Rebel Series brace. If the patient has disproportional leg measurements, simply provide leg circumferences six inches above and below the knee, and a medial-lateral width of the knee. Right out of the box, we guarantee the brace will fit with minimal or no adjustments.

Standard Features

Patented Townsend Motion Hinges mirror the roll-and-glide movement of the knee. This cornerstone feature of all Townsend knee braces creates total shell-to-skin contact between the brace and limb throughout range of motion. Townsend braces don’t gap or piston on the leg -- achieving more consistent control while reducing the potential for brace migration.

The patented Compression/Suspension Package (illustration left) includes anti-migration sub shells that can be added to the thigh shell of most knee braces. Tightening straps that feed through the malleable paddles creates compression into soft tissue above the knee.

The patented Synergistic Suspension Strap (illustration, right) captures the back and sides of the leg (medial-lateral and anterior-posterior). The patented attachment and angulation of the strap utilizes the calf muscle as a natural shelf. This nonelastic strap is designed to tighten in the flexion fold behind the knee. By tightening the strap on top of the wider aspect of the calf, the Synergistic Suspension Strap is highly successful in preventing brace migration.

Patented anti-rotation technology (illustrations, below) is incorporated into the tibia shell to keep the brace properly positioned on the limb. Full shell braces feature an anti-rotational tibia shell bolster, while Premier Series and Rebel Series braces have a contoured distal shell that captures the medial aspect of the tibia.

On Premier and Rebel Series braces, the tibia shell is contoured to match the anatomical shape of the shin which is flatter on the medial side and more rounded on the lateral side.

This illustrated cross section of the leg shows how the bolster that is built into the tibia shell on custom traditional full shell braces fits intimately against the medial border of the tibia.
Premier Series

Routinely Prescribed For...
Patients who have experienced ligament injuries and/or reconstructive knee surgery.

Braces Can Be Ordered...
- Custom from a cast, digital leg scan, CAS measurement device or new Custom Configuration System (photos)

Offered With These Standard Features...
- Custom Molded Solid Core Carbon Graphite Shells
- Patented Townsend Motion TMS+ Hinges
- Extension Stop Kit
- Patented Synergistic Suspension Strap
- Anti-Migration Strap Padding
- Rotation Control Tibial Shell Contour
- High Gloss Paint Or Powdercoat Finish

Available Options Include...
- ACL Or Combined Instabilities
- 13, 14, 15 And 16 Inch Shell Length
- Hinge Material -- Aluminum, Titanium Or Stainless
- Compression/Suspension Anti-Migration Package
- Flexion Stop Kit
- A Variety Of Colors

Optional Shell Configurations
The Premier is available in a variety of custom shell configurations.

- Standard thigh shell for low profile control and symmetrical frame.
- Optional Maximum Control (MC) thigh has increased surface contact for added stabilization.
- Optional posterior tibia shell.
- Optional double band tibia provides additional support and functional control.
- Optional single upright KAFO with leg extension and heel cup for rotary control or to eliminate any potential for brace migration.

Townsend’s most popular custom ligament knee brace, the Premier features a lightweight, low profile design that achieves excellent control and patient compliance.
Air Townsend & Air Lite

Routinely Prescribed For...
Patients who desire or require maximum control after experiencing a ligament injury and/or reconstructive knee surgery.

Braces Can Be Ordered...
• Custom from a cast or digital leg scan

Offered With These Standard Features...
• Custom Molded Laminated Carbon Graphite Shells
• Patented Townsend Motion TM5+ Hinges
• Extension Stop Kit
• Patented Synergistic Suspension Strap
• Anti-Migration Strap Padding
• Anti-Rotation Tibia Shell Bolster (Air Townsend)

Available Options Include...
• ACL Or Combined Instabilities
• Virtually Any Shell Length Over 12 Inches
• Hinge Material -- Aluminum, Titanium Or Stainless
• Special Trim Lines For Skiers, Rodeo, Hockey Goalies, And Full Figure Model For Soft Tissue Containment
• Flexion Stop Kit
• A Variety Of Colors Or Fabric Inlay

Highlighted Options
Optional single upright KAFO with leg extension and heel cup for rotary control or to eliminate any potential for brace migration.

This optional extension assistance mechanism uses strong latex bands slipped over two posts -- one proximal and one distal -- to the knee center. There is no limitation in flexion.
Motocross Series

Routinely Prescribed For...
Motocross riders who have experienced ligament injuries and/or reconstructive knee surgery, or to help prevent knee injuries for riders.

Braces Can Be Ordered...
• Custom from a cast or digital leg scan

Offered With These Standard Features...
• Custom Molded Laminated Carbon Graphite Shells
• Patented Townsend Motion TMS+ Hinges
• Extension Stop Kit
• Patented Synergistic Suspension Strap (Motocross Air)
• Second Shell Pad With No Patella Guard
• Anti-Migration Strap Padding

Available Options Include...
• Shell Length (Motocross Air)
• Hinge Material -- Aluminum, Titanium
  Or Stainless (Motocross Air)
• Flexion Stop Kit
• A Variety Of Colors Or Fabric Inlay (Motocross Air)

See page 14 for OTS BOLD motocross brace

Townsend Design has a strategic partnership with EVS (a world leader in motocross protective gear) to offer specially designed knee braces for riders.
Rebel Series

Routinely Prescribed For...
Patients who have experienced ligament injuries and/or reconstructive knee surgery.

Braces Can Be Ordered...
- Standard OTS sizes XS to XL (XXL Pro model)
- “Custom Assembled” from 3 leg measurements
- Custom from a cast, digital leg scan, CAS measurement device or new Custom Configuration System (photos)

Offered With These Standard Features...
- Rigid Aircraft Aluminum Frame
- Patented Townsend Motion TMS+ Hinges
- Extension Stop Kit
- Patented Synergistic Suspension Strap
- Anti-Migration Strap Padding
- Rotation Control Tibial Shell Contour
- Powdercoat Finish

Available Options Include...
- Rebel Lite (lowest weight, less rigid)
- Rebel (ideal for most patients)
- Rebel Pro (heavy duty users and contact sports)
- ACL Or Combined Instabilities
- 13, 14, 15 And 16 Inch Shell Length
- Compression/Suspension Anti-Migration Package
- Flexion Stop Kit
- A Variety Of Colors

Exclusive Customized Fabrication
Townsend is the only orthopedic manufacturer that offers the fit quality and value of a custom brace for a pre-sized price when you order any Rebel Series brace from three leg measurements (see page 27 for instructions). For disproportional legs that need to be fit with a non-custom brace, Townsend’s “customized” fabrication is the ideal solution. Our staff will mix and match part sizes and pre-set the width between the hinges to minimize or eliminate the need for you to make fitting adjustments.

Optional Shell Configurations
Optional MC thigh, available on the Rebel Pro model, has increased surface contact for added stabilization.
Optional posterior tibia shell.
BOLD

Routinely Prescribed For...
Patients who have experienced ligament injuries and/or reconstructive knee surgery.

Braces Can Be Ordered...
• Standard OTS sizes S to XL

Offered With These Features...
• Lightweight Brushed Aluminum Frame With Black Polymer Cuffs
• Townsend Motion TMS+ Hinges
• Patented Synergistic Suspension Strap
• 14 Inch Length
• Extension Stop Kit
• Anti-Migration Strap Padding
• Optional Flexion Stop Kit*
• Optional Knee Guard

The BOLD brace blends a very rigid aluminum superstructure with semi-malleable upper and lower cuffs to provide exceptional control and a comfortable fit.

Unique Features

Self-Formable Polymer Thigh and Tibia Cuffs

Embossed Aircraft Aluminum Superstructure

Moisture Wicking Pad Liners

Optional Motocross Knee Guard

See page 27 and 28 for ordering information.
Ligament Bracing

Sport Series

Routinely Prescribed For...
Patients who have experienced mild ligament injuries and/or reconstructive knee surgery.

Braces Can Be Ordered...
- Standard OTS sizes S to XXXL
  (4XL offered on neoprene models)

Offered With These Standard Features...
- Compression Sleeve
- Patented Townsend Motion Hinges
- Rigid Aluminum Bars
- Reinforced Nylon Hinge Pockets (no exposed metal)
- Condylar Pads

Available Options Include...
- Latex Free Neoprene Sleeve Material
  or Fiber Cool Sleeve Material
- Pull On Or Anterior Closure Models
- 12 Inch (2 Strap) and 16 Inch (4 Strap) Models
- Two Hinge Options
- Extension Stop Kit
- Flexion Stop Kit
- Patella Buttress (Pull-On Sleeves)

Hinge & Sleeve Options

Sport Series braces are available in a variety of configurations. The optional Fiber Cool sleeves feature an open cell material that reduces sweating and enhances comfort. The anterior closure models are easier to put on and allow for individual tightening of the thigh and tibia sections. The longer four strap models are recommended for taller patients and additional stabilization. The standard hinges have a fixed nonadjustable 5 degree extension stop; and the TM5+ Hinges offer adjustable extension and flexion stops.

Townsend’s Sport Series braces are designed for maximum durability and achieve more substantial control than traditional soft shell products. The patented low profile hinges track with the knee and are fully contained inside reinforced pockets so there is no exposed metal.
Premier Ankle Brace

Routinely Prescribed For...
Patients with severe ankle instability or posterior tibial tendon dysfunction who require stabilization or inversion/eversion motion control.

This Product Can Be Ordered...
• Custom from a cast mold

Offered With These Standard Features...
• Custom Molded Carbon Graphite or Polypro Shells
• Adjustable Ankle Joints
• Non-Elastic Straps
• Molded Polypro Foot Plate

Available Options Include...
• Shell Configuration And Height
• Dorsi Assist Bands Added To Joints
• Graphite Foot Plate
• A Variety Of Powdercoat And Paint Color Options

Ordering Options
Premier Ankle Braces can be ordered with anterior or posterior shells, and with a variety of foot plate options.

Premier Ankle Braces with standard ankle joints include inserts that can fixate the joints or limit inversion/eversion.

-5 Degrees
-2.5 Degrees
Free Motion
+5 Degrees
+2.5 Degrees
0 (Fixed)

Standard Ankle Joints
Standard Ankle Joints With Optional Dorsi Assist Bands
Optional Tamarack Joints

See page 25 and 26 for ordering information.
Locking Knee Braces

Routinely Prescribed For...
Patients who have severe knee instability and/or quadriceps laxity that requires the use of a knee brace with locking hinges.

Braces Can Be Ordered...
- Custom from a cast or digital leg scan
- RebelLock (OTS only) from leg measurements

Offered With These Standard Features...
- Patented Synergistic Suspension Strap
- Anti-Migration Strap Padding
- Anti-Rotation Tibia Shell

Available Options Include...
- Shell Length
- Posterior (Polio-Style) Tibia Shell ★
- Single Pivot Locking Hinges Or Townsend Motion Locking Hinges ★
- Cable System (Twist Or Push Release) ★
- Flexion Stops (Permanent, Select Joints Only)
- C/S Package (Premier Model and RebelLock)
- A Variety Of Colors
★ Not offered on RebelleLock

The Premier Trigger Lock Brace is a low profile, rigid knee orthosis that can be ordered with a variety of shell and hinge configurations.

Townsend’s Full Shell Trigger Lock Brace provides maximum control and containment of soft tissue.

Townsend’s RebelLock is the only OTS locking brace available. It is a rigid aluminum brace with drop lock hinges. The RebelLock is available in standard sizes. Custom options listed on this page are not available for this OTS brace.

Trigger Lock Options For Custom Braces

- Single Pivot Trigger Lock Hinges
- Townsend Motion Trigger Lock Hinges
- Optional Cable Release System

Townsend’s optional propeller-style twist handle cable release makes it easy for the patient to simultaneously unlock both joints. The internal cables connect the trigger locks to the twist release which is positioned on the proximal band. The handle can also retain the joints in an unlocked position. A push down lever release is also offered.

Custom braces can be ordered with a leg extension and foot plate (single upright KAFO) for additional control or to prevent brace migration.

See page 25 and 26 (custom), 27 and 28 (OTS) for ordering information.
Polio Series

Routinely Prescribed For...
Patients who have knee hyperextension or genu recurvatum.

Braces Can Be Ordered...
- Custom from a cast or digital leg scan

Offered With These Standard Features...
- Custom Molded Carbon Graphite Shells
  (anterior thigh, posterior tibia)
- Titanium Patented Townsend Motion Knee Joints
- Patented Synergistic Suspension Strap
- Anti-Migration Strap Padding

Available Options Include...
- Shell Length
- 5-Bar Knee Joints
- Townsend Original Knee Joints (Full Shell Only)
- Trigger Lock Joints
- Extension And Flexion Stop Kits
- C/S Package (Premier Polio Model)
- A Variety Of Colors

KAFO Option
Polio knee braces can also be ordered with a leg extension and foot plate (single upright KAFO) for added control or to prevent brace migration.

The Premier Polio Brace is a low profile, rigid knee orthosis that features an anterior thigh, posterior calf shell design, with shell reinforcements and heavy duty knee joints. This picture shows the optional C/S Package for enhanced suspension.

Townsend’s Full Shell Polio Brace provides maximum control and containment of soft tissue. This brace also features heavy duty 5-Bar Townsend Motion Hinges.
**Premier KAFO**

**Routinely Prescribed For...**
Patients who require a full leg brace to ambulate and participate in routine activities of daily living.

**Braces Can Be Ordered...**
- Custom from a cast mold or digital leg scan

**Offered With These Standard Features...**
- Custom Molded Solid Core Carbon Graphite Shells
- Custom Shell Pads
- Non-Elastic Straps
- Polypro Foot Plate

**Available Options Include...**
- Shell Configuration And Length
- A Variety Of Ankle Joints
- Free Motion Or Locking Knee Joints
- Optional Cable Release For Locking Joints
- Extension And/Or Flexion Stops (Free Motion Hinges)
- Graphite Foot Plate
- Foot Plate Trim Lines & Padding

Townsend KAFOs are a low profile, rigid alternative to bulkier, less cosmetically-appealing traditional long leg braces. A wide range of ordering options allow for patient-specific configuration of the brace.

**Ordering Options**
The Premier KAFO is available in these standard shell designs. Straps are positioned opposite each band. The shape and height (above and below knee center) of the bands can be indicated on the order form.

- KAFOs can be fabricated with locking or free motion knee joints, including stance control knee joints from other manufacturers (i.e. Horton, Fillauer, Becker).
- KAFOs can be ordered with a variety of ankle joints, including joints from other manufacturers (i.e. Becker).
- KAFOs feature optional foot plate length and side wall height.
Premier AFO

Routinely Prescribed For...
Patients with global ankle instabilities, weakness or absent musculature of the foot who require a lower leg brace to ambulate and participate in routine activities of daily living.

Braces Can Be Ordered...
• Custom from a cast mold or digital leg scan

Offered With These Standard Features...
• Custom Moldered Solid Core Carbon Graphite Shells
• Custom Shell Pad
• Non-Elastic Straps
• Polypro Foot Plate

Available Options Include...
• Shell Configuration And Height
• A Variety Of Ankle Joints
• Graphite Foot Plate
• Foot Plate Trim Lines & Padding

Townsend AFOs are a low profile cosmetically-appealing alternative to traditional plastic braces. The rigid graphite shell provides enhanced stabilization and support. A wide range of ordering options allow for patient-specific configuration of the brace.

Ordering Options
The Premier AFO is available in four shell designs. The shell height can be from 6-13 inches (measured from center of the ankle joint to the top band).

1) Anterior Pre-Tibial Proximal Band
2) Posterior Proximal Band
3) Anterior Proximal Band and Secondary Posterior Distal Band
4) Posterior Proximal and Distal Bands

• Models #3 and #4 with a secondary distal band are recommended when ordering anterior stop ankle joints.
• AFOs can be fabricated with a variety of ankle joints, including joints from other manufacturers (i.e. Becker).
• AFOs can be fabricated with a variety of foot plates.

See page 25 and 26 for ordering information.
ROM Post-Op Knee Braces

Routinely Prescribed For...
Patients who require post-operative fixation and/or range of motion control for post-injury stabilization.

This Product Can Be Ordered...
- Off-The-Shelf in a variety of models & lengths

Offered With These Standard Features...
- Rigid Aluminum Bars
- Hinges With Adjustable Extension & Flexion Stops
- Drop Lock Mechanism

Available Options Include...
- Bar Length
- Shell Pads (Full, Air, Or Breeze)
- Straps With Velcro Or Buckle Closures
- ROMX_SS and ROMX_BP feature suspension optimizing (anti-migration) technology

See page 27 for ordering information.
Rehabilitative Bracing

**TS ROM 1200/1600**

**Routinely Prescribed For...**
Patients who have experienced mild ligament injuries and/or reconstructive knee surgery.

**Braces Can Be Ordered...**
- Standard OTS Sizes S to XXXL
  - (4XL available for neoprene models)

**Offered With These Standard Features...**
- Compression Sleeve
- Townsend ROM Control Hinges
- Rigid Aluminum Bars
- Extension Stop Kit
- Flexion Stop Kit
- Reinforced Nylon Hinge Pockets
- Condylar Pads

**Available Options Include...**
- Latex Free Neoprene Sleeve Material
  - Or Fiber Cool Sleeve Material
- Pull On Or Anterior Closure Sleeves
- 12 Inch (2 Strap) and 16 Inch (4 Strap) Models
- Patella Buttress (Pull-On Sleeves)

**Hinge & Sleeve Options**
TS ROM Series braces are available in a variety of configurations. The optional Fiber Cool sleeves feature an open cell material that reduces sweating and enhances comfort. The anterior closure models are easier to put on and allow for individual tightening of the thigh and tibia sections. The longer four strap models are recommended for taller patients and additional stabilization.

Townsend’s TS ROM Series braces are designed for maximum durability and achieve more substantial control than traditional soft shell products. The patented low profile hinges track with the knee and are fully contained inside reinforced pockets so there is no exposed metal.

See page 27 and 28 for ordering information.
Walking Boots

**Routinely Prescribed For...**
Patients who require protection and/or stabilization to ambulate while they recover from foot, toe or ankle injuries and/or surgery. This product is contraindicated for unstable fractures or fractures of the tibia or fibula.

**This Product Can Be Ordered...**
- Standard sizes (based on patient’s shoe size)
- EZG8 walkers are available S-XL
- TD ROM walkers are available S-XL
- Adjusta Walker and Adjusta Achilles Walker S,M,L

**Offered With These Standard Features...**
- Foot Shell
- Aluminum Uprights (EZG8 and TD ROM Walkers)
- Molded/Padded Insole
- Shock Absorbing Outer Sole Rocker
- Foam Bootie
- Non-Elastic Straps

**Available Options Include...**
- Plastic Or Metal Foot Shell
- Full Height Or Mid Calf Uprights
- ROM Hinges (TD ROM Walker)
- Standard Or Pneumatic (Air Bladder) Bootie
- Heel Wedges (TD Walker)
- Indoor Sanitary Outer Sole Cover

Townsend’s Stability Boot Series provides a range of models and ordering options, including rigid metal shell walkers and economical plastic shell walking boots.

Achilles/Adjusta Walker

**Routinely Prescribed For...**
Grade II/III ankle sprain and stable or internally fixed fracture of the fibula, talus, medial malleolus, calcaneus and foot

Indicated for immediate application following injury to or reconstruction of the Achilles tendon. Contraindicated for unstable fractures or for fractures of the proximal tibia or fibula

**Features & Benefits**
- Bendable Metal Uprights
- Pneumatic and Non-Pneumatic Versions
- Softer, Durable Rocker Bottom
- Patented sliding upright ensures the most customized fit
- Increases correct ankle alignment and natural gait
- Soft Inner Foot Bed
Upper Extremity Bracing

Townsend Shoulder Slings

*Routinely Prescribed For...*
Positional support and/or immobilization following upper extremity injuries or surgery.

*This Product Can Be Ordered...*
- Off-The-Shelf in two standard sizes from arm length measurements

*Offered With These Standard Features...*
- Breathable Fabric Sling
- Universal (left or right arm) Abduction Pillow
- Adjustable Padded Strap
- Exercise Ball

*Available Options Include...*
- Size S/M Or Size L/XL

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ROM Post-Op Elbow Braces

*Routinely Prescribed For...*
Elbow injuries requiring short term stabilization, as well as for post surgical fixation and/or range of motion control.

*This Product Can Be Ordered...*
- Off-The-Shelf in a variety of models & lengths

*Offered With These Standard Features...*
- ROM Hinge(s) With Extension & Flexion Stops
- Adjustable Aluminum Bars & Straps

*Available Options Include...*
- Single Or Dual Hinge Models
- Shells & Hand Extension (dual upright, Low Profile model)

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Custom Elbow Brace

*Routinely Prescribed For...*
Hyperextension injuries and chronic elbow instabilities requiring rigid stabilization. Most often used by high performance athletes (football players, rodeo riders and javelin throwers).

*This Product Can Be Ordered...*
- Custom from a cast or digital arm scan

*Offered With These Standard Features...*
- Carbon Graphite Shell
- Low Profile Hinges
- Extension Stops: 0, 15, 30, 45 or 90 degrees
- Flexion Stops: 90, 110 and 120 degrees
- Nonelastic Straps

*Available Options Include...*
- Shell Length
- Colors Or Fabric Inlay
- Extension Bar & Hand Grip

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The LBO ROM elbow brace features tool-free length adjustment, bar extension plates that can be contoured to the arm, multiple flexion and extension stop settings, a drop lock that can fixate the arm at 90 degrees, and Breeze pads.

The dual hinge Low Profile Elbow features adjustable shells, a low profile hinge with flexion and extension stops, and an optional hand extension.

The single or dual hinge Multi-Adjustable ROM Elbow features multiple flexion and extension stops, and Air pads.
Instructions for ordering CUSTOM braces

Custom Premier Series Knee Braces (Products Described On Pages 4, 10, 17 and 18)

Models: Premier, Premier Reliever, PR1, Premier Trigger Lock, Premier Polio
Required: Completed order form (current forms can be downloaded -- www.TownsendDesign.com)
Submit: Cast, digital leg scan, CAS measurements or CCS photos to order Premier (ligament), Premier Reliever or PR1 (OA) knee braces. A cast or digital leg scan is required for Premier Trigger and Premier Polio braces.
Fabrication Schedule: 2-3 business days for ligament and OA models; 3-5 business days for specialty braces including single upright KAFOs; rush service is available for an additional charge; custom paint finish increases production time.

Custom Full Shell Series Knee Braces (Products Described On Pages 5, 11, 12, 17 and 18)

Models: Air Townsend, Air Lite, Reliever Air, Reliever Air Lite, Reliever, Motocross Air, Motocross Web, Trigger Lock and Polio
Required: Completed order form (current forms can be downloaded -- www.TownsendDesign.com)
Submit: Cast or digital leg scan for ligament and OA braces, Full Shell Trigger Lock and Full Shell Polio Braces.
Fabrication Schedule: 1-2 business days for ligament and OA models; 3-4 business days for specialty braces including single upright KAFOs; rush service is available for an additional charge.

Custom Aluminum Series Knee Braces (Products Described On Pages 6, 7 and 13)

Models: Rebel, Rebel Pro, Rebel Lite, Rebel Reliever, RelieverOne and UniReliever
Required: Completed order form (current forms can be downloaded -- www.TownsendDesign.com)
Submit: Cast, digital leg scan, CAS measurements or CCS photos.
Fabrication Schedule: 1-2 business days; rush service is available for an additional charge; custom paint finish increases production time.

Custom Elbow Brace (Products Described On Page 24)

Required: Completed order form (current form can be downloaded -- www.TownsendDesign.com)
Submit: Cast (please follow casting protocol described on the order form)
Fabrication Schedule: 2 business days; rush service is available for an additional charge.

Custom KAFO, AFO & Ankle Brace (Products Described On Pages 16, 19 and 20)

Required: Completed order form (current forms can be downloaded -- www.TownsendDesign.com)
Submit: Cast or digital scan for KAFO/AFO; Cast only for ankle brace.
Fabrication Schedule: 4-5 business days for KAFO, 3-4 business days for AFO and Premier Ankle Braces; rush service is available for an additional charge; custom paint finish increases production time.
Casting Instructions

FOR CUSTOM KNEE BRACES: Non-weight bearing; full extension; dorsiflex toes; length must be at least one inch longer top and bottom than the length of brace being ordered; plaster or synthetic; mark landmarks on stockinette with indelible pencil; position cutting strip down POSTERIOR aspect of the leg; wrap at least two layers thick; write patient’s name on cast.

FOR CUSTOM ELBOW: See product order form (download from web site: www.TownsendDesign.com)

FOR KAFO, AFO & ANKLE: Download instructions from web site: www.TownsendDesign.com

Alternative Devices

Custom Configuration System (CCS): The Custom Configuration System (illustration, right) is an exciting alternative to casting, complex measuring devices, and expensive digital leg scanners. The CCS makes it possible to use a cell phone camera (or digital camera) and Townsend’s proprietary CCS devices to take photos and measurements that can be transmitted by Email to Townsend. Our fabrication team configures this information to accurately replicate the contours and dimensions of each patient’s leg.

The CCS incorporates unique tools and processes that are interesting and technically impressive to patients. Using this system, you can save time and money — and achieve the fit quality and patient satisfaction you demand. Eliminating the time it takes to ship Townsend a cast also means the brace can get into production and be completed several days faster.

The CCS can be used as a substitute for casting when ordering Premier Series ligament and OA braces, and Rebel Series ligament and OA braces. Contact your Townsend representative or download information from our web site: www.TownsendDesign.com

Cast Alternative System (CAS): This device (illustration, left) can be used as a substitute for casting when ordering Premier Series ligament and OA braces, and Rebel Series ligament and OA braces. Contact your Townsend representative or download information from our web site: www.TownsendDesign.com
Instructions For Ordering OTS Products

Fabrication Schedule: Orders for individual braces or small quantities of standard size items that are received and processed prior to 1 p.m. PST (California) routinely ship the same day; larger quantity orders or braces with a non-standard powdercoat or custom paint finish routinely ship the next business day.

Orders: For your convenience, you can phone (800.840.2722), fax (800.798.2722) or E-mail your OTS orders (eorders@townsenddesign.com).

Pre-Sized & Customized Aluminum Shell Ligament & OA Knee Braces
(Products Described On Pages 6, 7 and 14)
Models: Rebel, Rebel Pro, Rebel Lite, BOLD, Rebel Reliever, RelieverOne, UniReliever
Measurements: To order standard size braces, take thigh circumference six inches above knee center. To order “customized” braces, take thigh and calf circumferences six inches above and below knee center, and use a caliper to take a knee M-L width with the leg at full extension (see sizing information, right top). NOTE: BOLD offered in standard sizes, not customized.

Sport Series Ligament, SoftForce OA (Soft Shell) Knee Braces, & TSROM 1200/1600
(Products Described On Pages 8, 15 and 22)
Models: Sport XII-AC, Sport XVI-AC, Sport XII-PO, Sport XII-PO, SoftForce, TSROM 1200/1600
Measurements: Circumference around the center of the knee with the leg at full extension.

Walking Boots
(Products Described On Page 23)
Models: TSB (metal shells), and plastic shell boots including the TD Walker, TD Mid Calf Walker, and TD ROM Walker; can be ordered with the optional pneumatic bootie (Air Walker models). Inertia is pneumatic only. Pedi Walker non pneumatic
Measurements: Boot sizes are determined by the patient’s shoe size.

Post-Operative ROM Elbow Braces
(Products Described On Page 24)
Models: LBO, Low Profile Elbow, and Multi-Adjustable Elbow
Measurements: Measure from wrist to elbow crease -- 8 inches or less S/M or 15 inch brace, over 8 inches L/XL or 16 inch brace. Single hinge models must be ordered left or right arm; Some models have length adjustment. The dual hinge Low Profile ROM Elbow includes shells that can be ordered S/M or L/XL. An optional hand extension is also available on this model.

Post-Operative ROM Knee Braces
(Products Described On Page 21)
Models: ROMX-SS, ROMX-BP, ROMX-FP, ROMX-AP, ROM6, ROM6-L, ROM4, Air ROM Long, and Air ROM Short
Measurements: ROM Knee Braces are universal size and leg; no measurements required.
Bigger full shell pads available for thigh circumference over 30 inches.

Shoulder Sling
(Products Described On Page 24)
Measurements: Measure arm from the elbow crease to the base of the index finger: S/M fits up to 14 inches, and L/XL is for measurements over 14 inches. The slings are universal (pillow can be detached and re-attached to the opposite side of the sling).
Rebel Series, Rebel Reliever and RelieverOne Knee Braces

Please refer to the sizing chart, below, for circumference and knee M-L measurements. Refer to specific models for size availability.

**X-Small:**
- 6” above: 12.5” - 15.5”
- 6” below: 11” - 12.5”
- M-L width: 3” - 3.5”

**Small:**
- 6” above: 15.5” - 18.5”
- 6” below: 12.25” - 13.75”
- M-L width: 3.5” - 4”

**Medium:**
- 6” above: 18.5” - 21”
- 6” below: 13.25” - 15”
- M-L width: 4” - 4.5”

**Large:**
- 6” above: 21” - 23.5”
- 6” below: 15” - 17”
- M-L width: 5” - 5.5”

**X-Large:**
- 6” above: 23.5” - 25”
- 6” below: 17” - 19”
- M-L width: 5.5” - 6”

**XXX-Large:**
- 6” above: 28” - 31”
  (RelieverOne thigh, no other models)

Sport Series & TSROM Measurements

**Small:**
- 13” to 14” knee circumference

**Medium:**
- 14” to 15” knee circumference

**Large:**
- 15” to 17” knee circumference

**X-Large:**
- 17” to 19” knee circumference

**XX-Large:**
- 19” to 21” knee circumference

**XXX-Large:**
- 21” to 22” knee circumference

**XXXX-Large:**
- 22” to 23” knee circumference
  (neoprene sleeves only)

SoftForce OA Measurements

**X-Small:**
- 12” to 13” knee circumference

**Small:**
- 13” to 14” knee circumference

**Medium:**
- 14” to 15” knee circumference

**Large:**
- 15” to 17” knee circumference

**X-Large:**
- 17” to 19” knee circumference

**XX-Large:**
- 19” to 21” knee circumference

**XXX-Large:**
- 21” to 22” knee circumference

**XXXX-Large:**
- 22” to 23” knee circumference

Walking Boots (Adult)

**Small:**
- Men’s Shoe Size 3.5 - 7; Women’s Shoe Size 4.5 - 8

**Medium:**
- Men’s Shoe Size 7 - 10; Women’s Shoe Size 8 - 11

**Large:**
- Men’s Shoe Size 10 - 13; Women’s Shoe Size 11 - 15

**Extra Large:**
- Men’s Shoe Size 13 - 16; Women’s Shoe Size 15+

Pedi Walker (Children)

**Small:**
- Children’s Shoe Size 5 - 8;

**Medium:**
- Children’s Shoe Size 9 - 13;

**Large:**
- Children’s Shoe Size 13 - 3;
Warranty Information

Product integrity, durability and fabrication quality are backed by service warranties. Our warranty policies are intended, for a defined period of time, to resolve issues related to material or fabrication defects, and ensure the product fits and functions properly. Warranty coverage is based on normal use and conditions. During and after the defined warranty period, Townsend’s objective is to offer services that achieve customer satisfaction.

**Custom Carbon Graphite Knee & Elbow Braces**

Lifetime repair or replacement of a brace that has a shell or hinge failure, with the exception of Trigger Lock braces which are covered for one year from the date of purchase. Replacement of parts including straps, chafes, hinges, hinge covers and padding that have material defects, breakage or unusual wear within the first six months from the date of purchase. Free remolding or product replacement related to fitting issues that occur within six months of the date of purchase.

**Custom, Customized And Pre-Sized Aluminum Knee Braces**

Repair or replacement of a brace that has any failure or compromise to the metal frame or hinges for one year from the date of purchase. Replacement of parts including straps, chafes, hinges, hinge covers and padding that have material defects, breakage or unusual wear within the first six months from the date of purchase. Free remolding or product replacement related to fitting issues within six months of the date of purchase for a CUSTOM brace, and 30 days for a CUSTOMIZED or PRE-SIZED brace.

**Custom Premier Ankle Brace**

Repair or replacement of a brace that has any failure or compromise to the shell, foot plate or hinges for one year from the date of purchase. Replacement of parts including straps, chafes, hinges, hinge plates and padding that have material defects, breakage or unusual wear within the first six months from the date of purchase. Free remolding or product replacement related to initial fitting issues within 30 days of the date of purchase.

**Custom Premier Series KAFO And AFO**

Repair or replacement of a brace that has any failure or compromise to the graphite shells, foot plate or hinges for one year from the date of purchase. Replacement of parts including straps, chafes, hinges, hinge plates and padding that have material defects, breakage or unusual wear within the first six months from the date of purchase. Free remolding or product replacement related to initial fitting issues within 30 days of the date of purchase (NOTE: Additional charges may apply if the customer requests modifications to the original structure, configuration or joints, or if the customer fails to initially provide a quality cast and/or accurate measurements).

**ROM Series Post-Op Braces, Shoulder Slings And Walking Boots**

These rehabilitative products are designed for use by one patient for a short duration not to exceed 90 days. Replacement will be provided for material defects, fabrication errors or unnatural wear under normal use for 90 days from the date the product is dispensed.

**Sport Series And SoftForce Reliever (Hinged Soft Shell Braces)**

Replacement of the product or compromised components will be provided for material defects, fabrication errors or unnatural wear to the hinges, straps or sleeve within the first six months for Sport Series and TSROM braces and within one year for SoftForce braces.
Product Return Information

Because Townsend Design has no direct involvement in patient selection, insurance authorizations, “no show” patients, and other patient compliance issues that can lead to the return of a product, the following general guidelines have been established. REQUESTS FOR RETURNS ARE REVIEWED ON A CASE-BY-CASE BASIS and decisions are based on fair and reasonable business practices.

General Policies For All Returns

A PRODUCT RETURN FORM MUST BE COMPLETED and submitted with the returned product for ANY POTENTIAL CREDIT to be considered. Townsend Design reserves the right to charge all or a portion of our costs for fabricating and shipping a brace when a customer fails to provide adequate opportunity to resolve a problem and/or in situations where the reason for returning the product is not due to any direct fault of Townsend Design (unrelated to customer service, fabrication quality, or the product’s performance). The PRODUCT AND PRODUCT RETURN FORM must be returned to: Townsend Design, 4615 Shepard Street, Bakersfield, CA 93313. For policy clarification or to discuss a specific situation before returning a product, please call 800.432.3466.

Specific Policies For Custom And “Customized” Products

FULL CREDIT FOR ALL CHARGES ASSOCIATED WITH THE FABRICATION AND SHIPPING OF A CUSTOM OR “CUSTOMIZED” PRODUCT (i.e. products that cannot be returned to inventory and resold) IS ONLY PROVIDED in situations where Townsend is clearly responsible for the reason why a custom or customized product is being returned. In situations where Townsend is not fully responsible, a partial credit may be considered, reducing the charge to approximately 25% to 75% of the original invoice. Any potential revision to the original invoice will routinely reflect the circumstances for the return and/or the customer’s purchasing history and/or a fair sharing of costs incurred to fabricate the brace.

Specific Policies For Off-The-Shelf (Pre-Sized) Products

A standard size or universal size off-the-shelf product (i.e. walking boot, aluminum and soft shell ligament or OA brace, ROM post-op brace, or Shoulder Sling) returned WITHIN 30 DAYS OF PURCHASE in pristine condition that can be PUT BACK INTO INVENTORY AND RESOLD will routinely qualify for full credit (excluding the original shipping charges). Restocking fees for OTS products are routinely applied if a customer is liquidating inventory and/or returns a product more than 30 days after the date of purchase. Partial product refunds are generally not provided after 120 days.

Credits

Townsend Design does not issue refund checks to customers. Credit toward future purchases is posted to the customer’s account. In most cases, Townsend does not provide credit for outbound shipping charges or any cost the customer incurs to return the product.
Business Hours
7 a.m. - 4:30 p.m. Monday-Thursday
7 a.m. - 4:00 p.m. Friday
Closed Most National Holidays

Calls from the USA
800.432.3466 (main line)
800.700.2722 (OTS orders)
800.798.2722 (toll-free fax)
800.840.2722 (marketing)

Calls from outside the USA
661.837.1795 (main line)
661.837.0613 (fax)

Address
4615 Shepard Street
Bakersfield, CA 93313