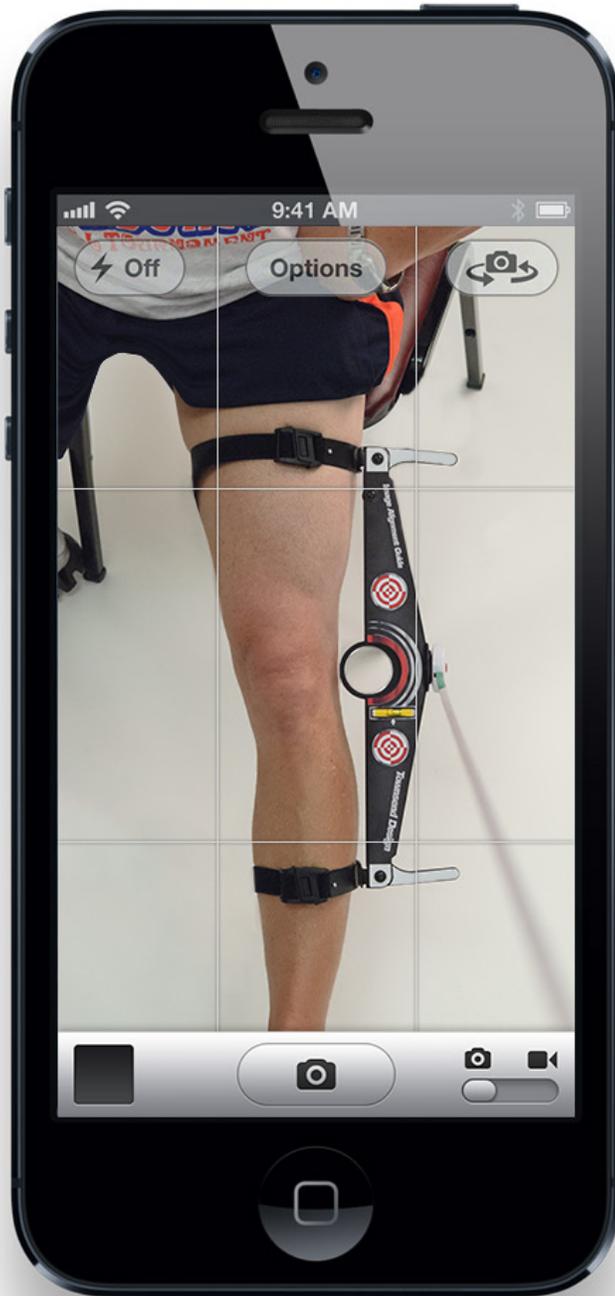


You can send us a cast,
or you can...



Townsend
ATHLASNE COMPANY

Image Alignment Guide

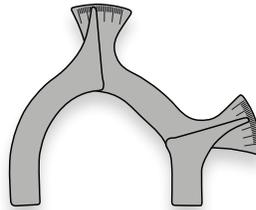


This proprietary device features:

1. A built-in level to help ensure the device is correctly mounted/angled.
2. A cylindrical Focal Angle Tube (in the center of the device) for achieving the ideal camera angle. This tube has a slide mechanism for positioning the tube close to the side of the knee.
3. A tape measure to ensure the photos are taken from at least four feet from the Image Alignment Guide.

Tibial Contour Gauge

This unique device captures medial and lateral angles that Townsend uses to accurately contour the tibia shell.



Tape Measure

Four leg circumference measurements are also required. These measurements -- taken three and seven inches above and below knee center -- are used to determine strap lengths and the size of undersleeves and brace covers.



And Your Mobile Device

Leg and IAG Positioning

Please do not deviate (take short cuts, etc.) from the step-by-step instructions.



Step 1: Seat patient on the edge of a chair. Leg/foot straight out from the body. Heel on the floor. Toes pointing up and slightly dorsiflexed (no toe out). Leg at full extension. Flexion over 10 degrees can prevent use of this device.



Step 2: Image Alignment Guide (IAG) mounts midline on lateral side of the leg. Colored graphics side face up (to be visible in the photos). Connect the magnetic buckles and tighten straps to suspend the device.



Step 3: Pull out the measuring tape a minimum of four feet (so green section is showing). Lay the end on the floor in preparation for **Step 6**.



Step 4: Fine tune the position of the Image Alignment Guide (IAG):

a) Adjust the position of the Focal Angle Tube inward so the black rim is close beside the knee without touching.



b) Confirm the IAG is suspended at anterior/posterior midline of the thigh, knee and calf.



c) Adjust the tilt of the IAG until the bubble is centered (or not touching either end) of the level tube.

We recommend the use of an iPhone or similar mobile device to take and transmit the leg images.



Photos & Measurements

Step 5: Position yourself to the side of the patient, and (by kneeling or squatting) take a low angle side view picture that shows the full length of the IAG at midline on the leg.



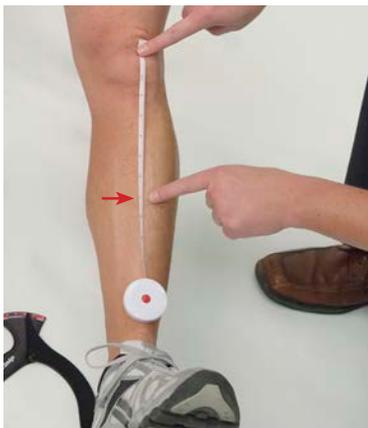
Step 6: Pick up the end of the measuring tape and hold it between your fingers in the same hand holding the camera phone. Stand directly in front of the patient's foot, looking down onto the IAG. Tape should be straight (not sagging, camera at least 4' above the IAG). Adjust the camera position so you only see the silver rim of the Focal Angle Tube and DO NOT SEE the red interior of the tube.



Step 7: Take a picture. Look at the image to confirm: 1) no toe out; 2) the bubble is in the center of the level; and 3) the image only shows the SILVER RIM of the Focal Angle Tube and not the red inside walls. We suggest you take and submit 2-3 front view pictures -- so we can choose the best image.



Step 8: Take the IAG off the leg by sliding out the magnetic end of each buckle. Remove the tape measure from the device.



Step 9: From the center of the patella, use the tape measure to find the position on the shin bone that corresponds with the length of the tibia shell you are ordering (6, 7 or 8 inches below the knee).



Step 10: Apply the Tibial Contour Gauge (6, 7 or 8 inches below the patella) and center the gauge on the crest of the tibia. Move/adjust the two alignment arms until the device is in full contact with the medial and lateral contour of the shin with no gapping.



Step 11: Slide the gauge down (toward the ankle) to remove the gauge without changing the position of the alignment arms.



Step 12: On the order form, write the number that corresponds with the pointer on each adjustment arm.



Step 13: Use the tape measure to take four circumferential measurements of the leg, 3 inches and 7 inches above and below knee center. Write these measurements on the order form.



Step 14: Email the one side view photo and the best (or multiple) front view photos to legimages@townsenddesign.com. Complete the order form and either fax the form to 661.837.0613, or take a photo of the form and email it with the leg photos to legimages@townsenddesign.com.

A Fast, Accurate
& User-Friendly
Alternative
For Ordering
Townsend's Most
Popular Custom
Knee Braces.

Townsend takes great pride in being the only major orthopedic manufacturer that still fabricates genuine custom knee braces from a hand-modified positive model of a patient's leg. While Townsend welcomes the continued submission of casts, we know an increasing number of medical professionals are using alternative methods to reduce material, labor and shipping costs.

The Custom Configuration System (CCS) 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 the proprietary devices described in this brochure 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 devices and processes that will be 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 isn't the first attempt by Townsend or other brace companies to use photos to make a custom knee brace. It is, however, a more sophisticated system for capturing leg images. Other manufacturers that use photos to make "custom" braces (that have flexible, semi-malleable shells) don't require the level of detail Townsend needs to make a rigid custom brace.

For carbon graphite knee braces, our fabrication team uses the images and measurement to configure a metal model that accurately replicates the contours and dimensions of the patient's leg. This model is utilized for vacuum forming the carbon graphite shells. For aircraft aluminum braces, the thigh and tibia shells are shaped to exactly align with the medial and lateral borders of the entire leg.

With this system, you can order Townsend's most popular custom ligament and OA knee braces (see brace models, below). A custom brace order form and the Custom Configuration Submission Form can be sent by email to: legimages@townsenddesign.com. Forms can also be faxed to 661.837.0613.

Custom Carbon Graphite

Custom Aluminium



Premier

Premier Reliever

Premier Reliever1

Rebel Series

Rebel Reliever

UniReliever

RelieverOne

Patient Name: _____

Facility Name Or Townsend Account #: _____

Your Name: _____ Phone #: (_____) _____

Type Of Brace You Are Ordering (a product order form MUST also be submitted)

Ligament Knee Brace

- Premier Rebel Pro
- Rebel Rebel Lite

OA Knee Brace

- Premier Reliever Premier Reliever 1
- Rebel Reliever UniReliever RelieverOne

Tibia Contour Gauge

Patient Measurements (please write legibly and in large print)

#1 Medial Tibia Measurement _____ mm

#2 Lateral Tibia Measurement _____ mm

Leg Circumferences

7" above the patella _____ inches (include to the nearest 1/8 or 1/4 inch)

3" above the patella _____ inches (include to the nearest 1/8 or 1/4 inch)

3" below the patella _____ inches (include to the nearest 1/8 or 1/4 inch)

7" below the patella _____ inches (include to the nearest 1/8 or 1/4 inch)

Instructions (optional)

Please provide any special instructions or information about this patient that you feel may need to be considered in the fabrication of this brace. _____

**Email this form and the completed product order form to:
legimages@townsenddesign.com or fax both forms to: 661.837.0613**