COMPRESSION

The new BME ELITE® Implants were compared to the following constructs: locking titanium midfoot compression plates, with and without 4.0mm lag screws, and crossing 4.0mm screws. These fixation combinations are commonly used in various arthrodesis sites. Compression measurements were taken using Tekscan® pressure maps placed between bicortical Sawbone® blocks. Measurements were taken before and after repetitive loading of 100 cycles at 2mm displacement.

Constructs using the new BME ELITE Implants provided significantly more compression than a locking titanium midfoot compression plate with and without a 4.0mm lag screw and crossing 4.0mm lag screws.

CONSTRUCT RIGIDITY

Construct rigidity, shown by the amount of force required to displace the constructs 2mm, was tested using a four-point bending apparatus. Measurements were taken for the first and 100th cycle of repetitive loading.

BME ELITE 4-leg Implants were tested against a leading locking titanium midfoot plate. Results are below.

TORSIONAL STABILITY

Torsional stability is the amount of force required to torque the constructs 15 degrees. Fixation combinations simulated arthrodesis of the talonavicular joint. Measurements were taken for the first and 100th cycle of repetitive loading.

Two BME ELITE 4-leg implants in parallel were tested against a locking titanium midfoot compression plate with and without a 4.0mm lag screw. Results are below.

CONCLUSION:

BME ELITE Nitinol Memory Implants provide rigidity and torsional stability with the added benefit of high levels of continuous compression.

*VER-132-09
‡ 1 N = 0.225 Pounds-force

Bench Test results may not necessarily be indicative of clinical performance.
Transcending Traditional Fixation.

- Patent-pending, plate-like design
- Retains compression after repetitive loading
- High strength, stiffness and rotational stability for high-load applications*
- Two- and four-leg low-profile, straight implants in multiple sizes
- Optimized, pre-sterilized, fully disposable system allows the surgeon to determine the bridge and leg lengths needed PRIOR to opening an implant package

DK-300 Drill Kit

A 0.062 in. K-wires (4)
B 3.0mm Drill Bit
C Depth Gauge
D Tamp
E Pull Pins (4)

EL-DTS Drilling Templates
SYSTEM PROFILE
PATENTED PRE-STERILIZED, FULLY DISPOSABLE SYSTEM- No heating, freezing or spreading required.

DRILLING TEMPLATES
Function as integrated sizing tools and drill guides to simplify the technique.

DEPTH GAUGE
Newly designed, customized depth gauge to help ensure optimal fit.

INSERTION TOOL
Implants are pre-loaded on BME's patent-pending Zero-Torque™ insertion tool.

BME ELITE IMPLANTS

<table>
<thead>
<tr>
<th>IMPLANT KIT</th>
<th>BRIDGE**</th>
<th>LEGS**</th>
<th>NO. of LEGS**</th>
<th>MAX. CLOSURE**</th>
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<tbody>
<tr>
<td>EL-1515S2</td>
<td>15</td>
<td>15</td>
<td>2</td>
<td>9.1</td>
</tr>
<tr>
<td>EL-1818S2</td>
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<td>2</td>
<td>10.4</td>
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<td>EL-2020S2</td>
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<td>9.5</td>
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<td>20</td>
<td>4</td>
<td>7.6</td>
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</table>

**SIZES IN MILLIMETERS

CORRESPONDING DRILL/TEMPLATE KITS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DRILL BIT SIZE</th>
<th>DRILLING TEMPLATES*</th>
<th>LOCATOR PINS</th>
<th>TAMPER</th>
<th>K-WIRES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DK-300</td>
<td>3.0mm</td>
<td>—</td>
<td>4 x LP-300</td>
<td>EL-TAMP</td>
<td>0.062 in.</td>
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<tr>
<td>EL-DTS</td>
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</tbody>
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**SIZES IN MILLIMETERS

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