An Intramedullary Limb Lengthening Solution for the Amputee Patient

Ellipse Technologies, Inc., an innovative company focused on developing implantable technology to treat a broad spectrum of spinal and orthopedic applications, has developed a cutting-edge solution for residual limb lengthening of the femur. The FREEDOM™ Residual Limb Lengthening device is a unique telescoping intramedullary nail that utilizes a remote control to non-invasively lengthen the affected limb. FREEDOM was designed to minimize overall nail length while maximizing distraction potential.

FREEDOM Benefits:

• Eliminates the need for External Fixation
• Customizable Lengthening Protocol
• Novel Magnetic Telescoping Technology
• 130 mm in Overall Length
• Up to 100 mm of Distraction
STATE-OF-THE-ART TECHNOLOGY

The key to the Ellipse platform technology is the magnetic interaction between the FREEDOM intramedullary (IM) nail and remote control. The proprietary technology includes a complex internal gear system remotely activated and controlled by permanent magnets.

The FREEDOM device combines an established magnetic technology with a novel telescoping design. This enables a compact 130 mm device the ability to distract up to 100 mm. This advancement in limb lengthening technology eliminates the need for external fixation, offers a precision-controlled distraction phase and allows the surgeon to non-invasively customize treatment.

EXTERNAL REMOTE CONTROLLER (ERC)

The ERC is a portable, hand held unit that precisely lengthens or shortens the IM nail through the touch of a button. The ERC is fully customizable to each patient based on their distraction needs. The ERC is designed to be used in a clinical setting or the comfort of the patient’s home.

<table>
<thead>
<tr>
<th>Nail Approach</th>
<th>Drill Guide Configuration</th>
<th>Maximum Distraction (mm)</th>
<th>Overall Length (mm)</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antegrade/ Retrograde</td>
<td></td>
<td>100</td>
<td>130</td>
<td>R14-100A130</td>
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</tbody>
</table>

For more information about this exciting technology, please visit our website at www.ellipse-tech.com or contact your local sales representative.