

RESIDUAL LIMB LENGTHENING SYSTEM

The Residual Limb Lengthening System (RLL) may be used for the amputee patient. The RLL nail may be used in the femur and features a proprietary telescoping design which minimizes overall length of the RLL nail while maximizing its distraction/stroke capability. An example RLL nail is shown to the right.

The interaction between magnets in the device and an External Remote Controller (ERC) allow for precise, adjustable and customizable distraction throughout the lengthening phase of treatment. The purpose of the RLL nail is to increase the length of the patient's femur, and therefore the patient's residual limb.

Following osteotomy and during the lengthening phase, the RLL implant is gradually lengthened based on the patient's requirements with the hand held ERC. The physician's lengthening prescription is loaded into the ERC. When the desired length is achieved, intramedullary fixation continues to provide stability throughout the consolidation phase.

The patient may use external support and/or restrict activities until consolidation occurs. the physician may adjust or reverse a prescription to best meet the needs of the patient. During the lengthening phase, the RLL nail increases the length of the patient's bone (e.g., the femur).

The prospective customers for residual limb lengthening goods, such as those described above, generally include surgeons, physicians, and hospitals.

