



# Devicix

Engineering the Future of Medicine

Orthopedic Products

Case Study

## TRAUMA IMPLANTS WITH POWERED SURGICAL INSTRUMENT

Dr. Ramon Gustilo, a pioneer in orthopedic trauma, wanted to commercialize his novel orthopaedic drill technology that reduces x-ray exposure during fixation of an intra-medullary nail by making distal screw locking easier and more reliable.

Devicix was engaged to commercialize this proprietary technology into a surgical instrument that would be suitable for both US and OUS markets. Expertise was required in medical electronics and medical device software.

Medical product design by Devicix:

- Prototype to clinical trials in 18 months
- Class II medical device, FDA approved
- Complete medical product design history file (DHF)
- Surgical drill technology development
- Medical electronics and medical device software (ISO 62304)
- Disposable medical product design
- Testing of orthopedic implants (ASTM)
- Medical device electrical safety testing (IEC 60601)
- Sterilization qualification of disposables
- Cadaver validation of medical products
- Medical product contract manufacturing

