

Motion: Static four-point bending
Types: Intramedullary nail
Time: 36 hours (1,152 core-hours on a 32-core Alfonso™ instance), or less

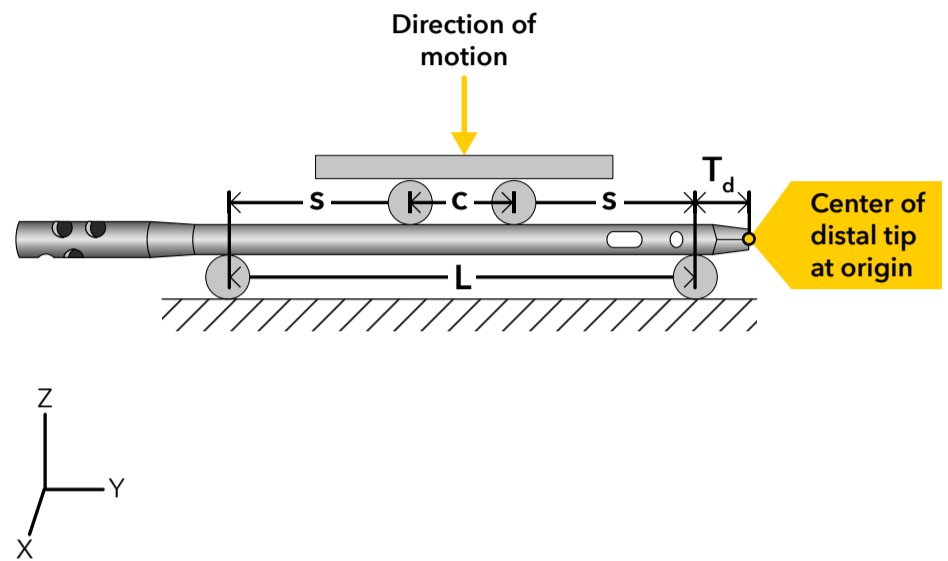
It's easy!

1. In CAD, just **position** your nail so that the distal tip is at the origin, oriented with the shaft along the -Y axis as shown at right.
2. Then **export** a closed STL (millimeter units) and securely upload it to Alfonso™.

Don't worry, we'll check your file and make minor fixes to positioning if needed. Alfonso™ will notify you when it's time to log into your account and download the results! (PDF summary, MP4 video, and CSV raw data)

See **Simulation Details** below for more info.

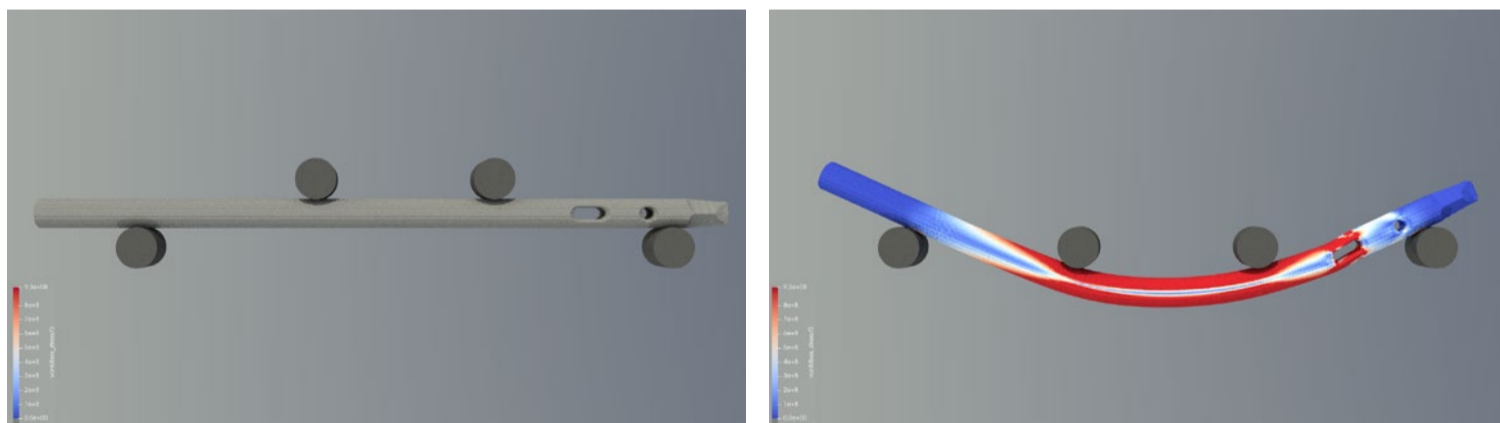
Simulation setup



- T_d** Distance from distal tip to first roller (up to 300 mm):
- L** Span between bottom support rollers (from 100 to 500 mm)
- c** Span between top loading rollers (no greater than L/3)
- s** Span between top and bottom rollers (L - c)

Validation data

Humeral nail of Ti6Al4V ELI (Diameter 10/8 mm, Length 260 mm)



Physical vs Simulated Static Four-Point Nail Bending Tests (ASTM F1264-16E1 A1)

