

## Objective

Create a functional prototype and complete feasibility testing of a device that assists the surgeon's selection in type of implant used during total shoulder arthroplasty.

### Stemmed Implant



### Stemless Implant



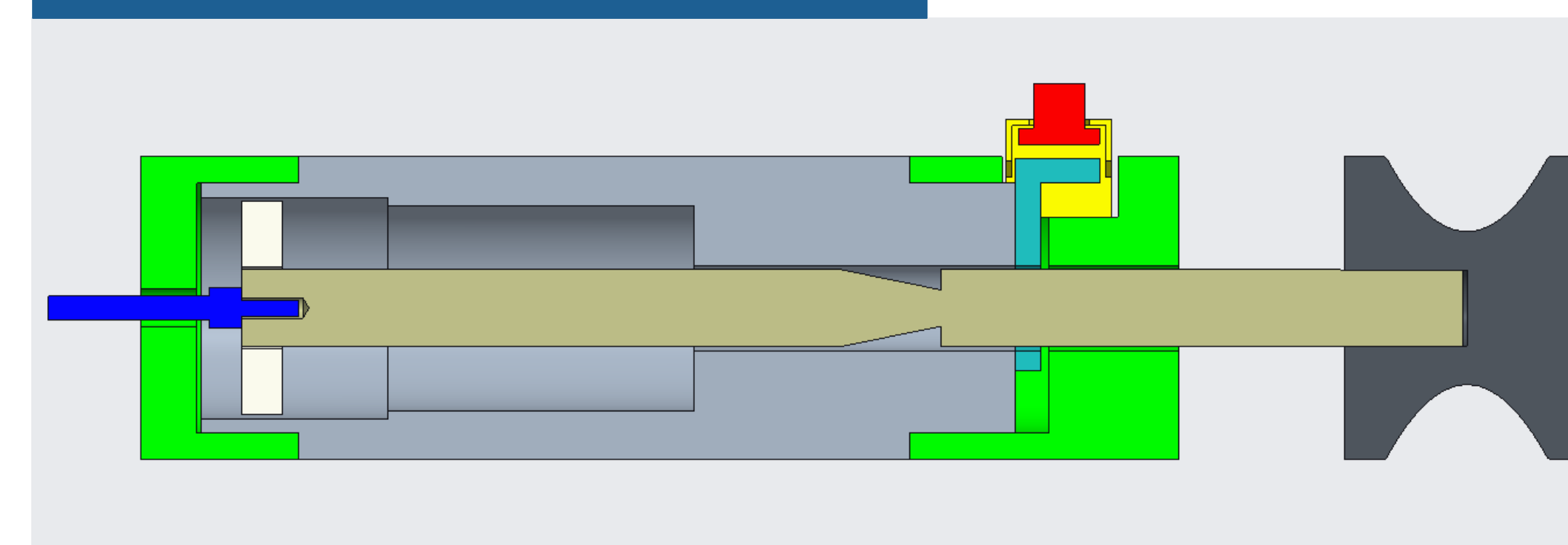
## Steps to use

- Pull handle to compress spring
- Place device against humerus
- Press button to release
- Read scale on back end of rod to determine quality

## Targets

- Device withstands temperatures up to 140° C
- Width of device is smaller than 16 cm
- Creates indentation less than or equal to 2 cm
- Reports results with 95% accuracy
- Lifespan greater than 50 uses

### Free Position



### Locked Position

