

# FTSS Harmonized BioRID Sled

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# Mini-Sled Specifications

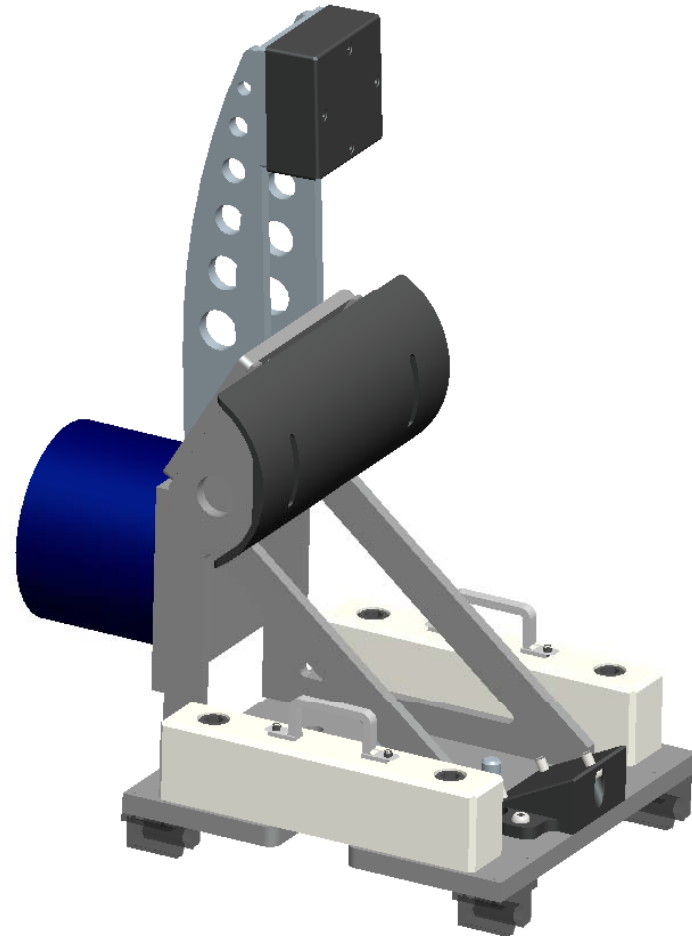
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- Probe Velocity: 4.70 – 4.80 m/s
- Probe Weight: 37.61kg +/- .1 kg
- Weight Package: 25.50 +/- .02 kg
- Sled Weight w/o headrest: 44.25 kg +/- .05 kg
- Sled Weight headrest: 6 kg +/- .02 kg
- Sled weight w/headrest: 50.25 kg +/- .07 kg
- Sled equipment
  - Procedure for level and install
  - Set up procedures
- *Pendulum Force: 9200N +/- 600*
- Peak sled acceleration: 127 M/s<sup>2</sup> +/- 9 M/s<sup>2</sup>
- *Peak Sled Velocity: 2.8 +/- 15 m/s*
- Velocity slope from 50 to 150 ms: 0 to -1.5 (m/s)/s
- **BASED ON 5 SLEDS TESTED AT 5 Labs**

# FTSS Sled Design Objectives

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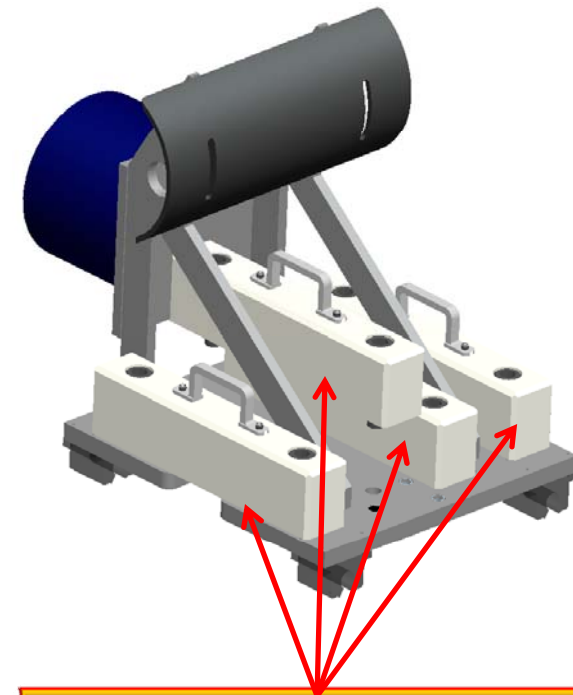
- Maintain compact packaging to ensure user friendly handling
- Keep center of gravity low to minimize oscillation in the Z axis
- Incorporate features learned from testing and comments from users



# Key Features

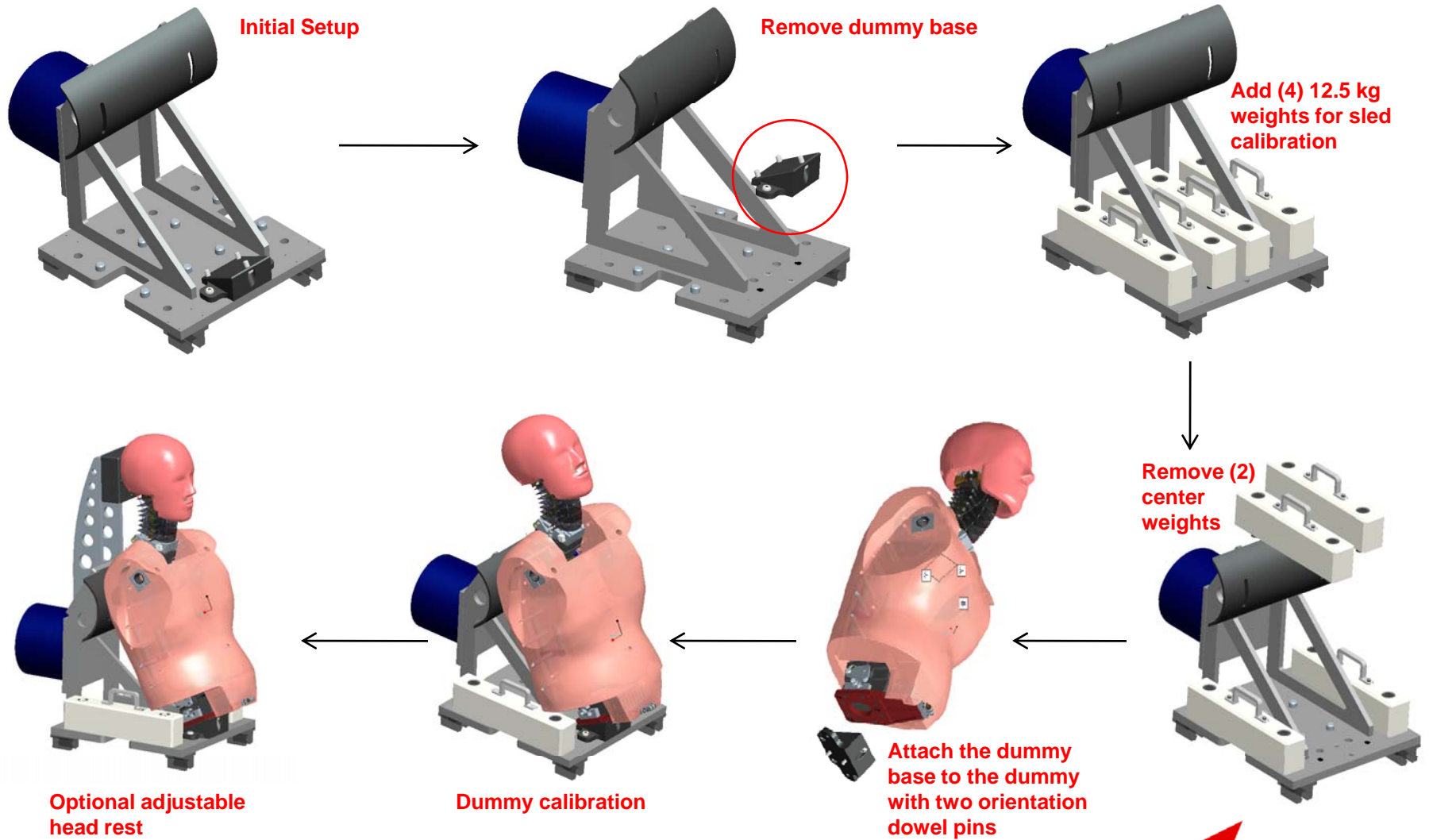
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- Weight package
  - Four (4) 12.5 kg ballasts
  - All removable units are under 20 kg for easy movement on/off of impact table
- Calibration Configuration
  - Sled calibration with 4 ballasts
  - Dummy calibration with 2 outer ballasts
- Harmonized energy transfer device
- Allow adaption of adjustable headrest attachment



- 4 ballasts with 2 x M24 bolts and 2 dowel pins on each ballast
- Easy to remove and carry around

# Sled Setup Cycle



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**Thank You!**