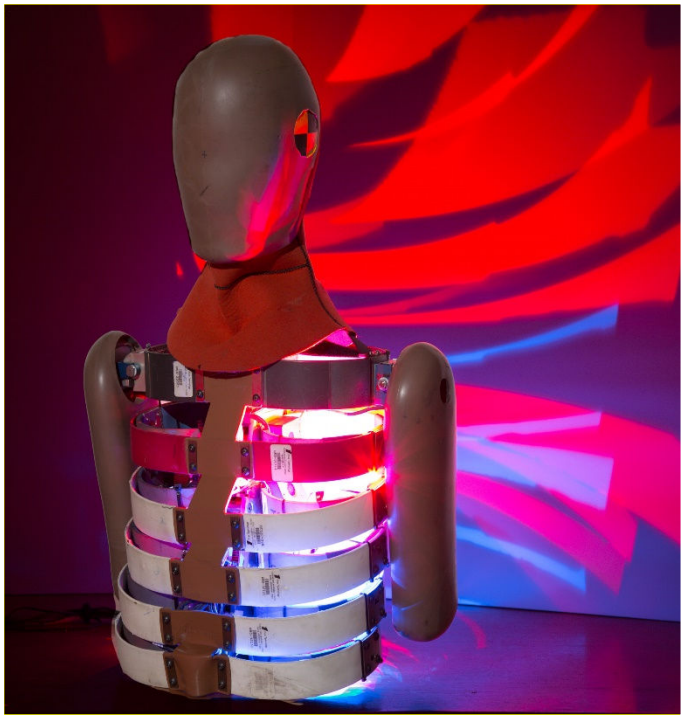
BOXBORO
systems

WorldSID 50th ATD – Second Generation RibEye™

A Better Way to Measure Thorax Displacement

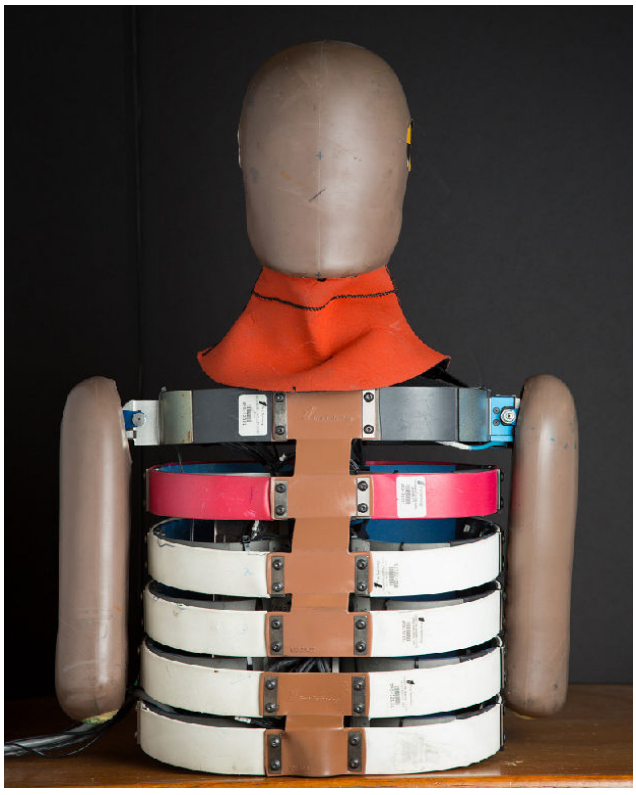


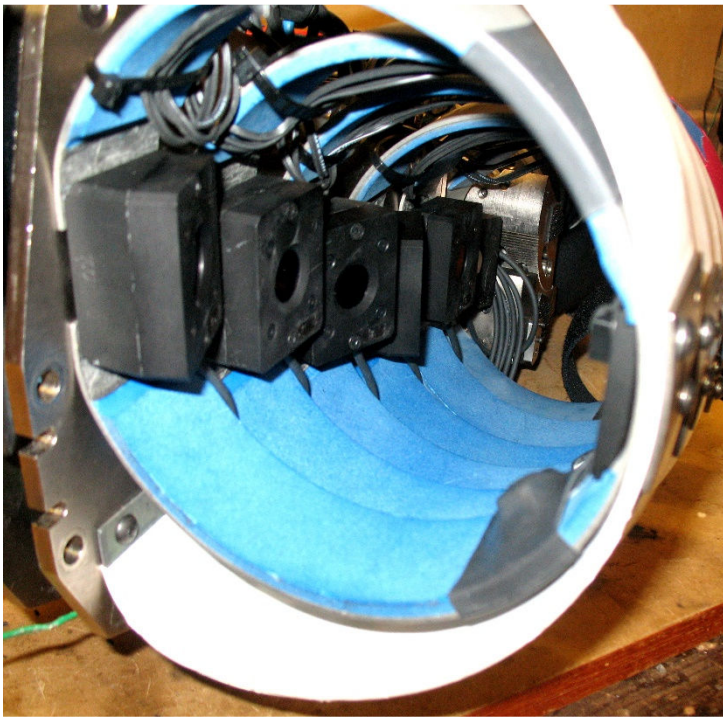
RibEye Advantages

- Multiple point measurement:
  18 points @ 10 kHz sample rate, captures linear and oblique loads
- Multiple-axis: measures X, Y and Z positions for each LED
- Non-contact: no mechanical linkages between spine and ribs
- Mounts to existing holes in spine and ribs – no modifications to dummy
- Interfaces with existing data acquisition systems: open protocol for RibEye operation by DAS software
- Emergency battery with charge level displayed in software
- Meets ISO 6487-2000 and SAE J211 specifications

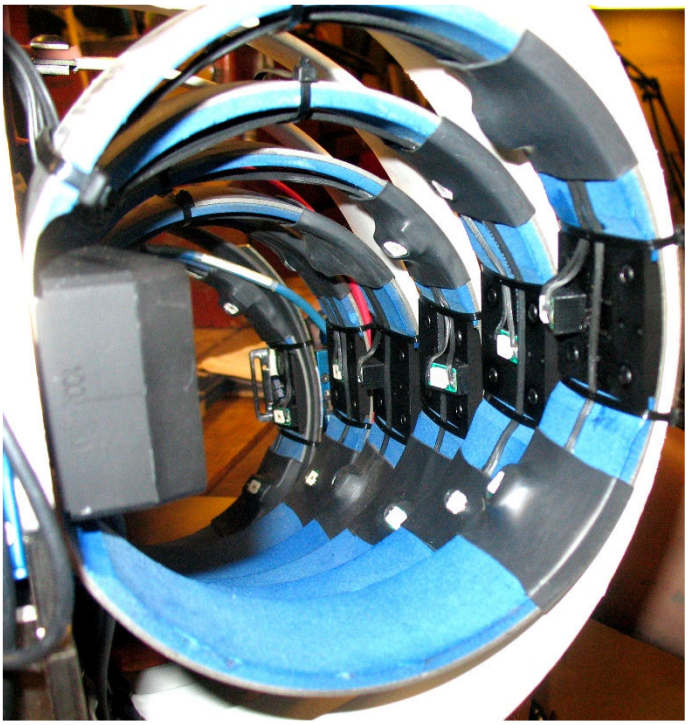
Measurement Capabilities

- Accuracy
  For Y and Z data:
  +/– 0.2 mm typical
  +/– 1 mm max. error
  For X data, max. error < 1.5 mm
- Range
  X axis: +/– 130 mm fore/aft
  Y axis: 85 mm chest compression
  Z axis: 80 mm up, 50 mm down
- Acquisition time
  3 minutes @ 10 kHz sample rate
- Temperature range
  18°-24°C (65°-75°F)





RibEye Sensors



RibEye LEDs

More information

- PC-based control software exports data in Diadem, ISO, or CSV formats
- Power requirement:
  12-60 Volts DC
  15 W (idle)
  25 W (data acquisition)
  40 W (max.)
- U.S. Patent Number 7508530
- For more data, please see our website literature, including user's manuals and technical conference papers about third-party testing using the RibEye

www.boxborosystems.com