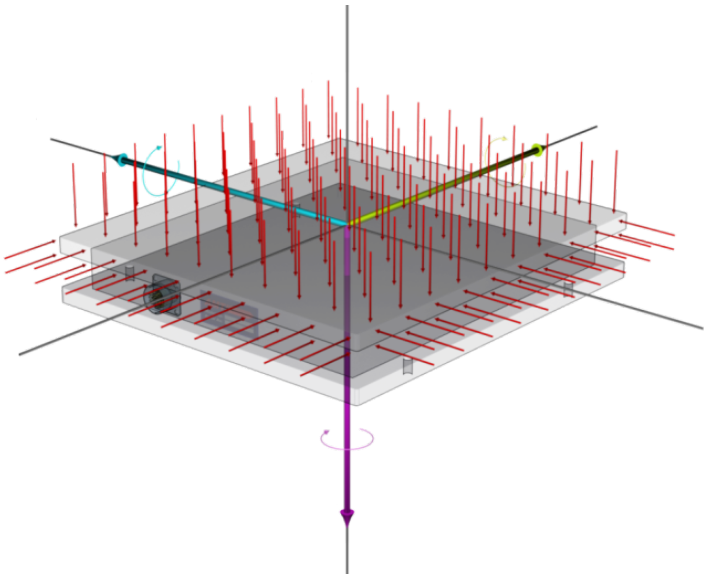
Optima Precision Calibration Overview

The calibration of an Optima system is an exacting process involving up to 4000 measurements taken along a 1-inch-grid pattern.



Multiple loads are applied at up to 400 locations using a precision machine capable of maintaining absolute positioning accuracy of 0.005 mm (certified by The Association For Manufacturing Technology).

- Live loads from 50 pounds to Full Scale Capacity (FSC) are applied across the top and sides of the force plate.
- Dead weights of 50, 100, and 200 pounds (accurate to 0.01%) are used to verify the system's performance in the physiological testing range.
- Secondary characteristics, such as linearity and hysteresis are measured at eight locations using a ten-point-up, ten-point-down calibration protocol.

This exhaustive calibration and verification process ensures that each Optima system offers the best possible quality, accuracy, and performance available.

You will find five plots on the following pages that characterize the accuracy of your Optima-HPS platform at 200.00 lb. (890 N) applied Fz load. Each intersection of the grids represents a physical location at which performance verification data was taken. Any measurement deviation is reflected by the contours of the plots that extend above and below the zero plane.