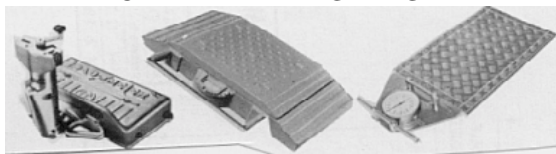


Morehouse

CALIBRATE WEIGHERS



FAST ACCURATE CERTIFIED TRACEABLE TO THE NAT'L INSTITUTE OF STANDARDS AND TECHNOLOGIES (NIST)

The Morehouse Wheel Load Weigher Calibrator is designed to speed the calibration and certification of wheel load weighers, yet maintain the high degree of accuracy required for proper certification. The calibrator can be used to calibrate weighers singly or in pairs in strict accordance with NIST.

The calibrator consists of three major parts...the main frame, a hydraulic system and a force standard.

1. The MAIN FRAME holds and aligns the weighers so that they are loaded in a series with the force standard. The main frame contains a loading beam so that forces are applied equally to both of the weighers when they are calibrated in pairs. When a single weigher is calibrated, it is positioned under the center of the beam.

2. The HYDRAULIC SYSTEM generates the force that is passed through the force standard to the wheel load weighers. The system has a calibration grade hydraulic cell for the precise calibration work and a precision dead weight type tester manual pump with a vernier screw piston for application of minute increments of load.

3. The FORCE STANDARD is ideally a series 200 Morehouse Proving Ring that is loaded in a series with the weighers and measures the force as it is applied to the weighers. The weight indicator of the weighers is read as the force is applied to them through the proving ring and is compared with the actual force as measured by the proving ring. The difference in readings between the weighers and the proving ring is the error of the weighers.

The Morehouse Proving Ring is designed and manufactured to specifications originally conceived by NIST. It is calibrated and certified to the same specifications that NIST uses, or if preferred it can be calibrated by NIST. For further information about Morehouse Proving Rings, please visit our web site at www.morehouseinst.com.

The calibrator is designed to calibrate wheel load weighers from 1000lbs to 40,000 lbs. The upper load limit of 40,000 lbs. is to provide for the calibrating of two 20,000 lbs. Capacity weighers in pairs.

The calibrator is now being used by many states and is designed, but not limited, to calibrate GEC, HAENNI, LOADOMETER and METRO DYNE wheel load weighers.

