

# Morehouse Unveils Small Deadweight Machine (SDM) for Small Force Calibration

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/EINPresswire.com/ -- [Morehouse Instrument Company](#), a trusted and accredited provider of force and torque measurement services for over 100 years, is proud to introduce its new [Small Deadweight Machine \(SDM\)](#). Designed to address the challenges of calibrating small force instruments, the SDM sets a new standard for metrology accuracy, efficiency, and versatility.

Traditional methods for calibrating small force instruments, such as stacking weights or using makeshift jigs, are time-consuming and prone to error. The Morehouse SDM is its most compact, fully automated deadweight machine yet. Designed with interchangeable weights and cutting-edge technology, it eliminates manual weight handling and ensures calibration accuracies exceeding 0.005% of applied force.

## Key Advantages of the SDM

- **Unmatched Accuracy.** Standard force values are meticulously calibrated, accounting for material density, air buoyancy, and local gravity.
- **Eliminates Tare Weight Issue.** Precision adapters and calibrated hangers ensure accurate measurements every time.
- **Smooth, Automated Processes.** Say goodbye to vibrations and fluctuations caused by manual loading by operators.
- **Efficiency Boost.** One operator can manage multiple SDM machines, streamlining calibration workflow and throughput.
- **Versatility.** The SDM is adaptable to diverse industries, from pharmaceuticals and material testing manufacturers to surgical tools and high-tech fiber production.
- **Customization.** We offer SDM machines with force ranges from 0.044 lbf (20 gf) to 44 lbf (20 kgf) to meet client needs.



Small Deadweight Machine

"At Morehouse Instrument Company, precision isn't just a goal—it's our promise. With the SDM, we're transforming small force calibration, ensuring accuracy, reliability, repeatability, and efficiency for your critical applications," says Henry Zumbrun, president of Morehouse Instrument Company.

## Features

- Automated mV/V data collection via Morehouse 4215 and HADI indicators. (Also compatible with Keysight/Agilent 34401 for Voltage and Current output transducers).
- An optional coupling kit, SDM-Adapter Kit1, that fits most small-capacity loadcells on the market (custom adapters are also available).
- Includes software output in standard Morehouse format and Excel (consult Morehouse about customizing software to integrate with customer's existing process).
- Standard weights can be loaded in any combination to create custom test profiles.
- Avoid errors associated with using off-the-shelf mass-calibrated weights not calibrated for force.
- Eliminate force excursions and swinging associated with hand-loading of weights.
- True primary standard deadweight machine.

Contact Morehouse Instrument Company at [sales@mhforce.com](mailto:sales@mhforce.com) or visit <https://mhforce.com/product/small-deadweight-machine-sdm/> to learn more about the SDM.

Companies worldwide rely on Morehouse for accuracy and speed. The company turns around equipment in 7-10 business days so customers can return to work quickly and save money.

The York, PA-based company provides force and torque measurement products and services worldwide.

## About Morehouse Instrument Company

Morehouse Instrument Company, a trusted and accredited provider of force and torque measurement services for over 100 years, offers measurement uncertainties 10-50 times lower than the competition.

Morehouse helps commercial labs, government labs, and other organizations lower their measurement risk by lowering equipment uncertainties for torque and force measurement. Contact Morehouse at [info@mhforce.com](mailto:info@mhforce.com) or [www.mhforce.com](http://www.mhforce.com)

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