

PG-5405 Rev. 4/2022

ISO/IEC 17025 / ANSI/NCSLI Z540.3 Accredited

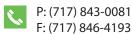


## **Benchtop Calibrating Machine**



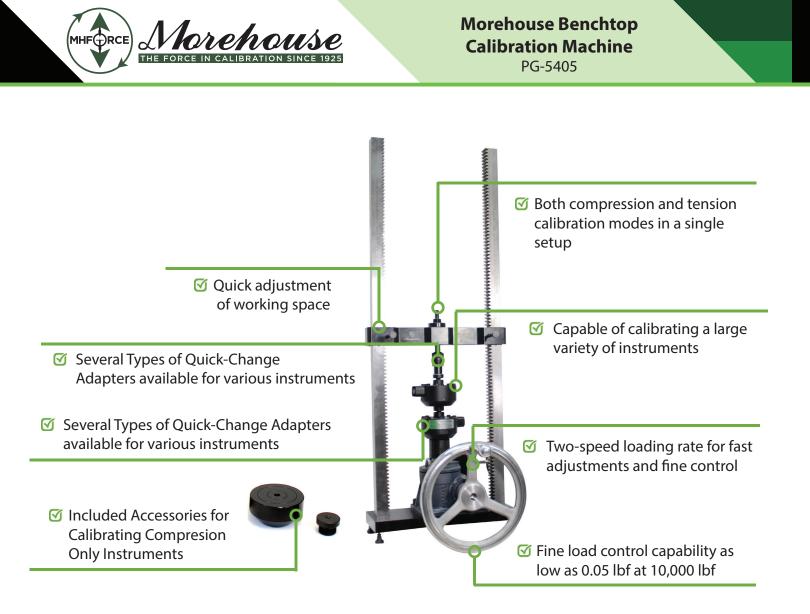


Morehouse Instrument Company, Inc. 1742 Sixth Ave., York, PA 17403-2675 USA





@



## **Standard Features**

- » Benchtop Calibrating Machine, Model BCM-10MD-1 weighs less than 150 lbs, with a footprint of 17.4 x 16.1 inches
- » Capable of calibrating a variety of equipment such as: load cells, crane scales, dynamometers, tension links, ring force gauges, hand-held digital force gauges, etc.<sup>1</sup>
- » Included bearing block and ball seat for calibrating compression only load cells
- » Two-speed mechanical jack with minimal maintenance required, and capable of coarse and fine adjustments controlling force at very fine level depending on the reference standard (control load to as low as ±0.05 lbf with a 10,000 lbf reference standard)
- » Included swiveling coupling nut for easy and fast setup, compatible with Morehouse Quick-Change Tension adapters at different sizes for calibrating various instruments
- » Morehouse Shear Web Load Cells available as reference standard from 200 lbf to 10000 lbf
- » Robust design, easy operation, and smooth force control even at maximum capacity

<sup>1</sup> Special adapters might be required to calibrate certain instruments in the Benchtop Calibrating Machine.



Benchtop Calibrating Machine; 10,000 lbf		
Calibration Capabilities		
Loading Capacity	10,000 lbf	50kN
Quick Adjustment Increments	0.393 in	10mm
Maximum Stroke	2.5 in	63.5mm
Weight with reference standard	150 lb	68 kg
Mounting Thread in Standard Reference	0.625″-18, UNF-2B	0.625″-18, UNF-2B
Standard Handwheel Diameter	10 in	254mm
Dimensions	-	
Overall Dimensions w/o Handwheel (WxDxL)	17.4 x 16.1 x 47.2 in	442 x 409 x 1199mm
UUT Working Area (WxL)	12 x 20.75 in	305 x 527mm
Calibration Capabilities		
Reference Standards Available	200 to 10,000 lbf	0.9 to 50kN
Control Resolution <sup>1</sup>	±0.001 % of Ref Standard Capacity	±0.001 % of Ref Standard Capacity
Loading Mode	Compression and Tension	Compression and Tension
Loading Direction	Ascending and Descending	Ascending and Descending

<sup>1</sup> Example: If the calibrating machine is equipped with a 10,000 lbf Morehouse Ultra-Precision standard reference load cell with 4.0 mV/V rated output, the control capability of the machine would be  $\pm 0.05$  lbf or  $\pm 0.00004$  mV/V.

Morehouse Instrument Company, Inc. 1742 Sixth Ave., York, PA 17403-2675 USA Phone: (717) 843-0081 www.mhforce.com

**Morehouse Benchtop Calibration Machine** PG-5405

The corporate philosophy is to make the world a safer place so we also offer these options to help reach that goal:

## **Calibration Services**

Morehouse offers ISO 17025 accredited calibration services. We can calibrate load cells (regular and multi-axis), proving rings, force gauges, dynamometers, crane scales, aircraft scales, and other force measuring instruments.

- Primary Standards laboratory, directly traceable to SI through NIST.
- Accredited force calibration services through 10,000 kN (2,250,000 lbf) in compression and 5,000 kN (1,125,000 lbf) in tension.
- Deadweight calibration up to 533 kN (120,000 lbf), accurate to 0.002 % of applied force.

## **Indicator Options**

Morehouse offers a range of indicator options to compliment your selection of loadcells. Choose from sophisticated standalone indicators, like our model 4215 Plus, that stores the polynomial values of the loadcell's calibration curve, giving you precise calibration results; or our HADI portable indicator that works with, and powered by, a laptop computer allowing you automate your calibration process and print certificates at the time of the calibration.

**Training** 

At Morehouse we are passionate about ensuring our customers get the best possible performance out of their calibration equipment. This means having the right equipment, the right adapters, and also includes having the right consistent process. We offer a wide range of educational and training material, along with regular webinars and training sessions that teach best practices. Check our website for the current training seminar schedule.





