Epsilon’s very high resolution calibrator features 0.8 micrometers (20 nanometers) resolution and has 2 inches (50 mm) of measuring range.

The 3590VHR calibrator meets the accuracy and resolution requirements for ASTM E83 Class B-1 for a 6 mm gauge length and greater extensometers and ISO 9513 Class 0.5 over the full measuring range of the calibrator.

The 3590VHR uses a coarse adjustment screw for large displacements, coupled with a fine adjustment screw that allows fine adjustment to within approximately 0.025 micrometers (about 1 micro inch). When it comes to calibrate your extensometers, these calibrators are easier to use and faster than any others on the market. They have enough measuring range to calibrate nearly all extensometers, and enough resolution to calibrate units with low measuring ranges.

The software provided reads in both inches and millimeters. The autozero function is a great help in calibrating. Just activate it to start readings from zero.

The digital display reduces operator error. The software provided reads in both inches and millimeters. The autozero function is a great help in calibrating. Just activate it to start readings from zero.

Options for available adapter sets:
3590-01 Smooth round posts, 0.25 inches diameter (6.35 mm)
3590-02 Adapters for flat specimens
3590-03 Adapters for clip-on fracture mechanics gages
3590-04 Transverse extensometer adapter (Model 3560)
3590-11 Transverse extensometer adapters (Models 3575AVG, 3575, 3475, 3565, 3511 and 3975)
3590-05 Circumferential extensometer adapters (Model 3542)
3590-06 Adapters for large averaging extensometers (Models 3445 and 3446)
3590-07 4 inch (100 mm) extension post for long gauge length extensometers
3590-55-10 10 inch (250 mm) extension post for long gauge length extensometers
3590-55-24 24 inch (600 mm) extension post for long gauge length extensometers

Standards Labs in most countries have signed a Mutual Recognition Arrangement CIPM MRA. This includes the NPL in the UK, NIST in the USA and many others. This makes them effectively traceable to each other. Services of the NPL are equivalent to those offered by NIST and are recognized by NIST through this agreement of reciprocity.

Certified

Specifications

- **Accuracy:** ±7.5µin (±0.19 µm) over any 0.00475 inch (0.12 mm) range
- **Resolution:** 0.8µin (20 nm)
- **Temperature Range:** 18°C to 28°C (64°F to 82°F) operation**, -10°C to 60°C storage (14°F to 140°F)
- **Relative Humidity:** ≤ 90% (Non-condensing)
- **Connectivity:** USB 1.1 & 2.0 interface, self-powered.
- **Weight:** 8 lbs (standard configuration)*
- **Adapters:** Ø0.375” (9.52mm) posts included*

**Recommended range**

Epsilon is one of the only companies in the world with the capability to perform full system calibrations on high resolution extensometer calibrators.

Visit our website at

www.epsilontech.com

Visit our website at www.epsilontech.com

Contact us for your special testing requirements.