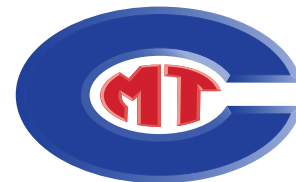


CONCEPT MACHINE

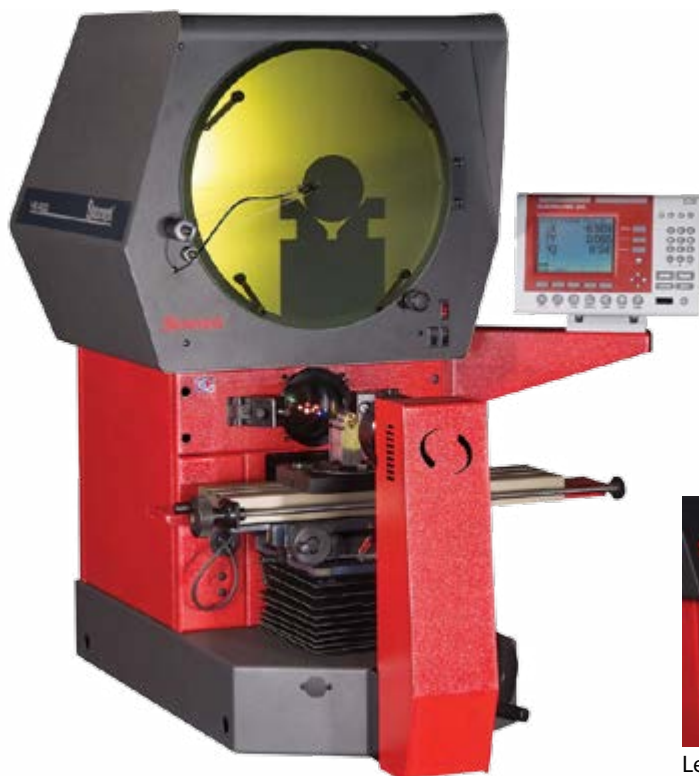
Metrology Spotlight

Bringing you the newest products and technology.



Starrett HB400

Horizontal Benchtop Optical Comparator



Starrett



Lenses, Options and Accessories
SOLD SEPARATELY



Additional Digital
Readouts to choose from

Features

- ▶ Fully usable 16" diameter screen with overlay clips
- ▶ Digital protractor for accurate angular measurements (1 minute resolutions) via Q-axis on readout
- ▶ Hard anodized aluminum top plate with cast iron intermediate and base plates
- ▶ 22-lb. load capacity with negligible deflection and 110 lb. maximum capacity
- ▶ 12" horizontal travel by manual fine adjustment with quick release mechanism and 15° work stage helix adjustment
- ▶ 6" vertical travel
- ▶ 2" focus travel
- ▶ 24V, 150W profile illumination
- ▶ 24V, 250W fiber optic surface illumination
- ▶ Single lens mount with quick action lens change (lens not included)
- ▶ Collimating condenser with yellow/green filter and provision to mount further accessories
- ▶ Measurement by means of a linear encoder (glass scale) on both X and Y axes
- ▶ Interchangeable and Fixed 5X versions are available

DIGITAL FORCE TESTING SYSTEM

Easy to Setup, Operate and Maintain

Starrett Force Testing L1 Systems represent our most-basic, computer-based force testing solution.



- The L1 Force Testing system is available in three capacities: 110lbf, 330lbf, 550lbf
- Easily perform load, distance, beak, cyclic, constant load and distance testing
- **Review results in multiple formats including; graph, data, tolerance and statistics**
- Reference distance travel ruler
- Compact design is ideal for small work space and for lean manufacturing environments
- Adjustable, magnetic travel limits
- The 2-in-1 tablet features a 10" high resolution, touchscreen, color display with three USB 2.0 ports



Model: L1

Starrett



FORCE MEASUREMENT TEST FRAMES - **DUAL COLUMN**

Starrett

Features:

- Ideal for tension, compression, flexural, cyclic and shear testing applications
- Excellent load, displacement, speed and position accuracies
- Superior frame stiffness and position control
- Use with Starrett L2 Force Measure Software or S2 Spring Measurement software on Starrett Windows-based tablet PC
- Use with Starrett L2 Plus Force Analysis software on Starrett Windows-based all-in-one computer
- ULC, MLC, and FLC load cell sensors are IEEE 1451.4 compliant and supplied with a factory Certificate of Calibration
- Optional digital I/O
- Data sampling from 1 to 2000 Hz
- USB Communications
- Wide selection of test fixtures and accessories

**The FMD test frames are available in three load capacities:
10kN, 30kN and 50kN**



Model: FMD-10K-L2

Force Measurement Has Never Been Easier

Featuring a 2-in-1 Dell Laptop Console

Chatillon 

CS2 Series Key Features:

- Colorful 9" screen for easy and fast test setups
- Robust construction
- Flexible "T" Slot mounting base for custom fixturing
- Results and statistics are exported to CSV and PDF formats
- Automatic export of results via RS232 interface after each test
- 100 kHz data sampling
- Multilingual and multi-unit display options as standard

Available in a **1 kN (225 lbf)** and a **5 kN (1100 lbf)** frame capacity.



CS2 Series

Force Measurement Up to 100kN

LLOYD 
materials testing

- All available modules are included in the [NEXYGENPlus software](#) price
- NEXYGENPlus software interacts with Excel and Word
- The LD Series comes in five bench mounted models:
 - LD5 (up to 5 kN/1124 lbf)
 - LD10 (up to 10 kN/2248 lbf)
 - LD30 (up to 30 kN/6744 lbf)
 - LD50 (up to 50 kN/11240 lbf)
 - LD100 (up to 100 kN/22480 lbf)
- Extra-large working area of 452 mm (17.8 in)
- Crosshead travel up to 1070 mm (42 in) extendable to 1669 mm (65.7 in)
- Can be mounted above a floor standing compression cage for large sample or complete assembly testing



Model: LD50

Designed for both routine quality control testing, automated testing and for performing complex multi-stage testing.

The Industry's Most Accurate, Reliable and Easiest-To-Use Gaging System Is Even Better

Z-MIKE PRO

BETA LaserMike

An NDC Technologies Brand



Precision off-line dimensional measurement for metrology applications



Multiple input/output connectors

Z-Mike Pro Offers

- Built-in auto-calibration and dual-differentiation technology
- Larger, higher-resolution, touch-screen graphical user interface
- NEW Advanced laser diode technology, backed by a 3-year warranty, doubles the life of conventional diodes
- $\pm 0.9 \mu\text{m}$ accuracy and $\pm 0.25 \mu\text{m}$ repeatability
- USB connectivity simplifies integrating the gauge into centralized production networks
- Get powerful Ethernet connectivity, communication and control capabilities
- Easy-to-use features for simple setup and operation
- Easily generate Sample, Batch, and Fixture reports

Measuring the Smallest Details

Measure the lengths, diameters, angles, radii, bevels, threads for even the smallest details!



Measuring Field:	15 x 100mm
Max Loadable Sizes:	90 x 260mm
Resolution:	0.1 μm - 0.1 μm - 0.0001 degree
Accuracy:	2+D[(mm)]/100] μm 5+L[(mm)]/100] μm
Repeatability:	0.4 μm 3 μm
Dimension:	560 x 660 x 860mm



MTL X5

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