

1600



16" HORIZONTAL BEAM OPTICAL COMPARATOR

- **"55 Years"**
Manufacturing Experience in U.S.A.
- **"Heavy Duty"**
Steel Construction
- **"Exclusive"**
Gothic-Arch Bearings
- **"Superior"**
Optics-Brightness-Resolution
- **"Large"**
7" X 12" Stage Travel
- **Standard**
Swing Away Lamphouse
- **Erect Image**

S-T  **INDUSTRIES, INC.**
SCHERR-TUMICO

See ^{the}
Quality

16" COMPARATOR The "1600" Series 16" Erect Image Horizontal Beam Optical Comparator features a more rugged structure, a 7" x 12" travel measuring stage with gothic arch bearing ways. Over 55 years experience manufacturing optical comparators in the U.S., combined with its worldwide service organization makes S-T Optical Comparators your best buy.

Rotating glass screen with electronic digital readout protractor.

Erect Image.

Duplex fiber optic surface illumination.

Heavy duty nickel plated stage with 7" x 12" travel with Readings via .00005"/.001mm precision glass scales. True +/- 15° helix adjustment on stage. Optional 7" x 16" travel stage.

Swing away lamphouse.

State of the Art Electronics. Choice of 3 readout systems, all DRO's have RS232C output and available with complete geometric functions and automatic edge sensing.

Long life Tungsten-Halogen bulbs. Ultra bright, sharp image with wide choice of magnification lenses.

Heavy duty all steel construction.



STANDARD FEATURES



Nickle plated 5" X 20" top plate with 2 std. clamping slots, 7" (Y) x 12" (X), travel with a 150 lb. work load capacity, exclusive gothic arch bearing ways, .00005"/.001mm Acu-Rite glass scales, quick release on X- axis. True +/- 15° helix adjustment on stage in 5 min. increments. Swing away lamphouse allows you to inspect extra long parts. Rotating glass screen with chart clips and digital readout protractor and duplex high intensity surface illumination. Optional 7" x 16" travel stage.

DIGITAL READOUTS

Quadra-Chek 221 and 221E



These powerful digital readouts provide fast geometric computations in a simple, easy to use format. Functions include point, line, circle, distance, angle, skew alignment and Measure Magic. Other features include Inch/MM, Cartesian/Polar, nearest/farthest distance, complimentary angles, serial and parallel ports and 200-feature memory. Large, high contrast LCD screen graphically displays measurement features and construction. Housing tilts backward or forward for best angle of operation. Model 221E includes fiber optic edge sensor.



Standard Digital Readout

The Standard digital readout features absolute/incremental, IN/MM conversion, random zeroing, RS232C output, linear error compensation and Q axis for digital screen protractor.



Quadra-Chek 4215

PC computer based geometric readout system, mouse driven, with on screen graphic representation of part or part segment as it is measured. Simple CAD interface simplifies constructions and part programming. Unlimited part and feature memory. Includes computer with Microsoft® Windows® fiber optic edge sensor and all functions found in the Quadra-Chek 200.

1600

FEATURES & SPECIFICATIONS



NOTE: 1600 shown above with lamphouse tilted to the right and with optional 20-1406-00 console base.

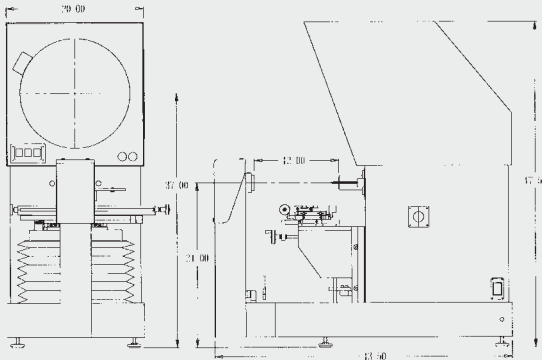
CATALOG #	DESCRIPTION
20-1600-01	with S-T 7000 DRO
20-1600-02	with QC 221 DRO
20-1600-03	with QC 221E DRO, Edge Sensing
20-1600-05	with QC 4215 DRO, Edge Sensing

NOTE: the "1600" Series is also available with X - Y motor drives and full CNC controls

OPTIONS

CATALOG #	DESCRIPTION	CATALOG #	DESCRIPTION
20-1620-00	5 x Lens	20-1618-00	50 x Lens
20-1610-00	10 x Lens	20-1621-00	100 x Lens
20-1613-00	20 x Lens		
20-1615-00	25 x Lens		

SPECIFICATIONS



Work Table: 5" x 20" (125 x 500 mm)
Measuring Range: 7" x 12" (175 x 300 mm)
 Optional 7" x 16" (175 x 400 mm)
Allowable Work Load on Stage: 150 lbs. (65 kg)
Illumination: Profile - 150w, Surface - 150w x 2
Focus Travel: 3" (75 mm)
Screen Size: 16" (400 mm)
Helix: +/- 15 degrees
Electrical: 100-240v, 50/60hz
Weight: 500 lbs. (225 kg) - Crated 600 lbs. (270 kg)

THE S-T FAMILY OF OPTICAL COMPARATORS

14" HORIZONTAL



20-3500

30"



20-3700

24" HORIZONTAL



20-5600

14" VERTICAL



20-2450



20-4600

CALL OR WRITE TODAY FOR FREE INFORMATION ON ANY OF THE ABOVE



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International Operations

SCHERR-TUMICO optical comparators and video inspection systems are available throughout the industrialized world. S-T Industries maintains a service and distribution network with factory qualified sales and service representatives in the following countries. Call or write for your representative.

Australia	Canada	France	Germany	Great Britain
Greece	Holland	Hong Kong	India	Indonesia
Israel	Italy	Malaysia	Mexico	New Zealand
Norway	Singapore	South Africa	South America	South Korea
Spain	Sweden	Taiwan	Thailand	Turkey