

3500-3550



**14"
HORIZONTAL
BEAM OPTICAL
COMPARATOR**



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

*See the
Quality*

14" COMPARATOR The 3500-3550 Series 14" Comparators feature a more rigid stage with greater measuring range and accuracy. Over 60 years of experience manufacturing in the U.S., combined with its nation wide factory service organization makes S-T Optical Comparators your best buy in the industry.

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.

Ultra bright, sharp image with wide choice of magnification lenses.

Duplex fiber optic surface illumination, standard.

Helix $\frac{1}{2}$ 6° VIA lamphouse displacement.

Long life Tungsten-Halogen bulbs.

Rotating glass screen with electronic digital readout protractor on 3550 series models, 5 min. vernier on 3500 series models.

Rugged nickel plated stage, 4" x 10" travel, 50 lb. load capacity. Readings via .0001"/.002 mm precision glass scales.

Threadless ball bearing X-axis fine adjust with quick release.

Heavy duty all steel chassis.



All S-T Industries Optical Comparators and Video Inspection systems include a two year warranty on parts and labor, installation and training at your facility and a certificate to NIST. There are no additional hidden costs for this service.

STANDARD FEATURES



- Hardened steel, nickel plated 5"x16" top plate with 2 standard clamping slots.
- 4"(y) x 10"(x) travel with 50 lb. load capacity.
- Hardened steel and precision ground bearing ways.
- .0001"/.002 mm Acu-Rite glass scales. Quick release on X-axis.
- Duplex fiber optics, Surface illumination is standard.
- Rotating glass screen available in either vernier or electronic digital readout.

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 5000



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.



NOTE:
SHOWN WITH
OPTIONAL
HEAVY DUTY
CONSOLE BASE

3500-3550

FEATURES & SPECIFICATIONS

"3550" Series With DIGITAL PROTRACTOR

CATALOG #	DESCRIPTION
20-3551-00	3550 with S-T 7000 DRO
20-3552-00	3550 with QUADRA-CHEK 221
20-3553-00	3550 with QUADRA-CHEK 221E
20-3555-00	3550 with QUADRA-CHEK 4215

"3500" SERIES WITH 5 MINUTE VERNIER

CATALOG #	DESCRIPTION
20-3501-00	3500 with S-T 7000 DRO
20-3502-00	3500 with QUADRA-CHEK 220
20-3503-00	3500 with QUADRA-CHEK 220E

OPTIONS

CATALOG #	DESCRIPTION	CATALOG #	DESCRIPTION	CATALOG #	DESCRIPTION
20-0320-00	5x Mag Lens	20-0317-00	31 1/4x Mag Lens	20-3631-00	Rotary Vise Fixture
20-0310-00	10x Mag Lens	20-0318-00	50x Mag Lens	20-3633-00	Stage Centers
20-0312-00	20x Mag Lens	20-0319-00	62 1/2x Mag Lens	20-2540-00	Vertical Glass Fixture
20-0313-00	20x Mag Lens	20-0321-01	100x Mag Lens	20-1406-00	Heavy-Duty Console Base
20-0315-00	25x Mag Lens	20-3630-00	Rotary V-Block		

SPECIFICATIONS

MEASURING TRAVEL – 10" (250 mm) horizontal (X) • 4" (100 mm) vertical (Y) • 2.5" (60 mm) focus with Quick Release on X-Axis

PRECISION MEASURING STAGE – 5" x 16" (125 x 400 mm) nickel-plated top plate

DIGITAL SCREEN PROTRACTOR ON 3550 SERIES – angular readings to 1 minute of arc

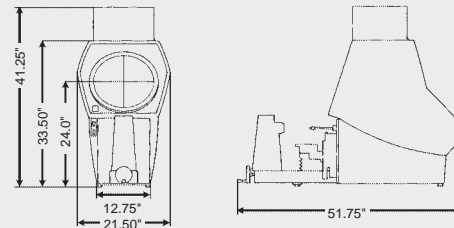
DUPLEX FIBER OPTIC SURFACE ILLUMINATION

14" FROSTED GLASS SCREEN – with 30, 60, and 90 degree crosslines

HELIX - +/- 6° via lamphouse displacement

HEAVY DUTY DUST COVER

- Steel construction with Polyethylene body
- 50 lb. (22 Kg.) allowable workload on stages



- Electrical: 115/220 Volts, 50-60- Hz, Single Phase, 2.0 Amp
- Approx. Weight: Net 170 lbs. (75 kg) - Crated 285 lbs. (113 kg)

THE S-T FAMILY OF OPTICAL COMPARATORS

14" & 16" HORIZONTAL



20-1600



3700

30"



22-5600

24" VERTICAL



2450

14" VERTICAL



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