

2400



The 24" vertical beam optical comparator sets a new standard for quality and price. It features a heavy duty all steel construction with ultra bright and an extremely sharp image with a built-in 3-lens turret with S-T's exclusive gothic arch vertical bearings.

- High precision 4" x 8", 4" x 12" or 6" x 8" and 6" x 12" travel measuring stages with .00005"/.001mm resolution precision glass scales. Quick release with fine adjust on x-axis.
- Choice of several digital readout options including all QuadraChek geometric digital readouts.
 - 3-position lens turret.
 - Digital screen protractor to 1' or .01°.
 - Long life Tungsten/halogen bulbs.
- Duplex fiber optics surface illumination.
- Available with motorized, joystick controlled stages.
- Available CNC option.

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.



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.



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.

The S-T Industries Story

Since 1942, S-T Industries, Inc. has been producing fine measuring instruments. From micrometers to optical comparators, the SCHERR-TUMICO name continues to be a hallmark of quality around the world. When S-T introduced the Model 1500 vertical beam optical comparator in the 1950's, it allowed companies of all sizes to afford the technology of profile projection. As we look forward to the 21st century, S-T Industries is committed to providing high quality products for metrology at reasonable prices.

Quality

Every SCHERR-TUMICO optical comparator and video inspection system receives a thorough inspection and certification before it leaves our factory. This assures you there will be no surprises at your factory. These products are hand built and tested through each step of the process to guarantee that you will receive a reliable and proven instrument.

Performance

SCHERR-TUMICO optical comparators and video inspection systems are designed to give you the best value for your investment. We have a unit for any job or budget. From small, economical machines to large, CNC measuring systems, you'll find we have just the right product to fit your needs. We'll even modify an existing system if we don't have exactly what you want.

Innovation

S-T Industries has incorporated many unique features into its products. Among them are our exclusive gothic arch ballways, which provide the ultimate in accuracy, strength and durability. Also, our 30" comparators are portable. They are equipped with large casters so that one person can move the instrument. And, our CNC products all have a digital positioning system that allows table movements of 1 micron. We will continue to add new ideas and technology to our products because at S-T Industries, our design engineer is our customer.

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.

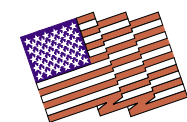
Australia	Belgium	Canada	China
France	Germany	Great Britain	Greece
Holland	Hong Kong	India	Indonesia
Ireland	Israel	Italy	Malaysia
Mexico	Norway	Pakistan	Portugal
Scotland	Singapore	South Africa	South America
South Korea	Spain	Sweden	Taiwan
Thailand	Turkey	Denmark	Philippines

S-T OPTICAL COMPARATOR SPECIFICATION GUIDE									
Standard Series No.	3500	3650	1600	4400	4600	2400	2450	2600	5600
CNC Series No.	N/A	3850	1680	N/A	4800	2480	2488	2800	5800
SCREEN DIAMETER	14"	14"	16"	14"	14"	24"	24"	30"	30"
PROFILE ILLUMINATION	Horizontal	Horizontal	Horizontal	Vertical	Vertical	Vertical	Horizontal	Horizontal	Horizontal
IMAGE	Inverted	Erect	Erect	Erect	Erect	Erect	Erect	Inverted	Erect
WORKSTAGES									
Workstage Size	5" x 16"	5" x 20"	5" x 24"	6" x 16"	10" x 14"	10" x 14"	5" x 24"	8" x 35"	8" x 35"
WORKSTAGE TRAVEL									
X-Axis	10"	12"	12"	6"	8"	8"	12"	12"	12"
Y-Axis	4"	5"	7"	2"	4"	4"	8"	9"	9"
Stage Workload Capacity	50 lbs.	100 lbs.	150 lbs.	25 lbs.	25 lbs.	25 lbs.	200 lbs.	500 lbs.	500 lbs.
Helix Adjustment	+/- 6 deg.	+/- 6 deg.	+/- 15 deg.	+/- 20 deg.	N/A	N/A	+/- 15 deg.	+/- 10 deg.	+/- 10 deg.
OPTIONAL STAGES									
Workstage Size	N/A	5" x 21"	5" x 24"	6" x 10"	10" x 18"	10" x 18"	5" x 24"	8" x 35"	8" x 35"
WORKSTAGE TRAVEL									
X-Axis	N/A	16"	16"	4" or 2"	12"	12"	16"	20" or 24"	20" or 24"
Y-Axis	N/A	4"	7"	2"	4"	4"	8"	7"	7"
Stage Workload Capacity	N/A	100 lbs.	150 lbs.	25 lbs.	15 lbs.	15 lbs.	150 lbs.	200 lbs.	200 lbs.
READOUTS									
Micrometers	N/A	N/A	N/A	S	0	N/A	N/A	N/A	N/A
Digital Linear Scales	S	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A
7000 DRO	S	S	S	0	S	S	S	S	S
QC 220/221	0	0	0	0	0	0	0	0	0
QC 220E/221Ew/edge sensor	0	0	0	0	0	0	0	0	0
QC 4215 w/edge sensor	0	0	0	0	0	0	0	0	0
OPTIONS									
Surface Illumination	S	S	S	0	S	S	S	S	S
Digital Screen Protractor	0	0	S	0	S	S	S	S	S
Power X-Y Axis/Joystick	N/A	0	0	N/A	0	0	S	S	S
Turret Lens Changer	N/A	N/A	N/A	N/A	S	S	S	0	0
Iris Diaphragm	0	0	0	0	0	0	0	S	S
Green Filter	0	0	0	0	0	0	0	S	S
MAGNIFICATION LENSES									
Full Range of Mag. Lenses									
10X, 20X, 25X, 31 1/4X, 50X, 62 1/2X, 100X	0	0	0	0	0	0	0	0	0
5X Magnification Lens	0	0	0	0	0	Special	Special	0	0
250X Magnification Lens	0	0	N/A	0	0	N/A	N/A	N/A	N/A
ACCESSORIES									
Stage Centers	0	0	0	0	0	0	0	0	0
Rotary Vise	0	0	0	0	N/A	N/A	0	0	0
V-Blocks w/Centers	0	0	0	0	0	0	0	0	0
Rotary V-Blocks	0	0	0	0	N/A	N/A	0	0	0
Rotary Top Plate	N/A	N/A	N/A	0	0	0	N/A	N/A	N/A
Glass Plate Workholder	0	0	0	N/A	N/A	N/A	0	0	0
Tracer Attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0

S-T INDUSTRIES, INC.

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 E-mail sales@stindustries.com



Made in USA since 1942

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.



See the Quality

2600



The 2600 Series 30" horizontal beam model has been a leader in the industry for over 40 years. It offers high accuracy and weight capacity in a portable package making it a choice for an inspection room or shop floor application. It features S-T's exclusive gothic arch bearing ways which provide the best in accuracy and life.

- High precision 9" x 12" measuring stage travel with .00005"/.001mm resolution precision glass scales. Optional 7" x 20" and 7" x 24" travels available.

- Motorized X and Y axis with joystick control.
- Choice of several digital readout options including all QuadraChek geometric digital readouts.
- Optional 6-position power lens changer.
- Chrome plated workstage for long life and corrosion resistance.
- Tungsten/halogen profile illumination (24V/200W) for bright, sharp images at all magnifications.
- Duplex surface illumination.
- Digital screen protractor with readings to 1' or .01° with rotating steel ring.
- Three 7" diameter wheels for portability.
- Available CNC option.

5600



This 30" horizontal beam optical comparator provides the same performance and flexibility as our 2600, except with an erect image. The 5600 provides improved viewing due to its vertical screen. It features S-T's exclusive gothic arch bearing ways which provide the best in accuracy and life.

- High precision 9" x 12" measuring stage travel with .00005"/.001mm resolution precision glass scales. Optional 7" x 20" and 7" x 24" travels available.

- Motorized X and Y axis with joystick control.
- Choice of several digital readout options including all QuadraChek geometric digital readouts.

- Optional 6-position power lens changer.

- Chrome plated workstage for long life and corrosion resistance.
- Tungsten/halogen profile illumination (24V/200W) for bright, sharp images at all magnifications.
- Duplex surface illumination.
- Digital screen protractor with readings to 1' or .01° with rotating steel ring.
- Three 7" diameter wheels for portability.
- Available CNC option.

3650



This is our top of the line 14" horizontal beam optical comparator. The 3650 is the ultimate system for load capacity and accuracy. It features an erect image and S-T's exclusive gothic arch bearing ways which provide the best in accuracy and life.

- Erect image.
- High precision 5" x 12" measuring stage travel with .00005"/.001mm resolution precision glass scales. Quick release with fine adjust on X axis.

- Choice of several digital readout options including all QuadraChek geometric digital readouts.
- Quick change mount for factory preset magnification lenses.
- Nickel plated workstage for long life and corrosion resistance.

- Tungsten/halogen profile illumination (24V/150W) for bright, sharp images at all magnifications.
- Duplex fiber optic surface illumination.
- Digital screen protractor with readings to 1' or .01°.
- Available joystick control and CNC option.

1600

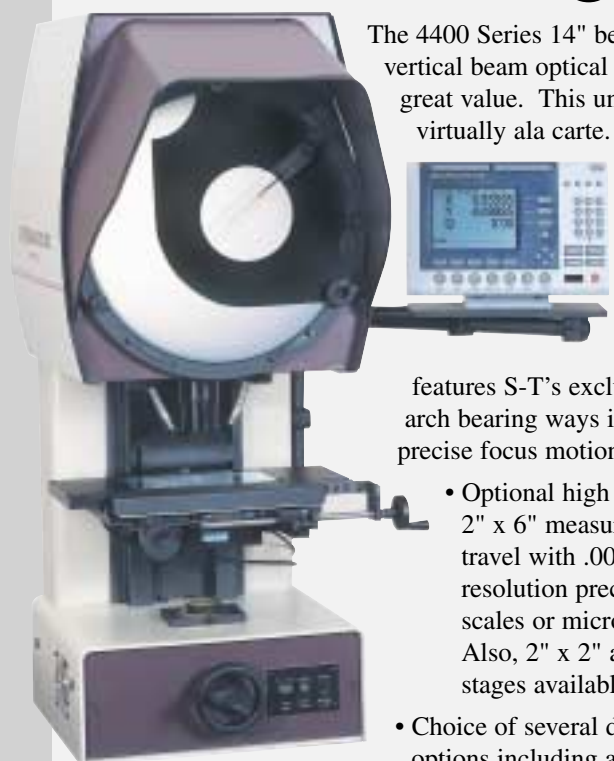


The "1600" Series 16" horizontal beam optical comparator sets a new world standard for 16" comparators, with extra heavy duty all steel construction and a large capacity measuring stage with a superior gothic arch bearing way system.

- High precision 5" x 24" stage with 7" x 12" travel, optional 7" x 16" travel, .00005"/.001mm resolution glass scales and a 150 lb. load capacity.
- Digital screen protractor to 1' or .01°.
- Duplex fiber optics surface illumination.

- +/- 15 degree helix on stage.
- Erect image.
- Standard swing away lamphouse.
- Long life Tungsten/halogen bulbs.
- Exclusive gothic arch bearing ways on stage.
- Choice of several digital readout systems available.
- Available joystick controls and full CNC.

4400



The 4400 Series 14" benchtop vertical beam optical comparator is a great value. This unit is sold virtually ala carte. You can get as simple or as sophisticated as you want. It is designed particularly for small parts. It features S-T's exclusive gothic arch bearing ways in its smooth, precise focus motion.

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It features S-T's exclusive gothic arch bearing ways in its smooth, precise focus motion.

- Optional high precision 2" x 6" measuring stage travel with .00005"/.001mm resolution precision glass scales or micrometer heads. Also, 2" x 2" and 2" x 4" stages available.

- Choice of several digital readout options including all QuadraChek geometric digital readouts.

- Quick change mount for factory preset magnification lenses.
- Tungsten/halogen profile illumination (24V/150W) for bright, sharp images at all magnifications.
- Optional duplex fiber optic surface illumination.
- Optional digital screen protractor with readings to 1' or .01°.

3500

The 3500 Series 14" benchtop horizontal beam model is the perfect general purpose optical comparator. Its high accuracy and compact size make it the choice of even the most demanding user. The unique, granite-like housing offers a rugged appearance to this fine instrument. The stage features hardened and precision ground bearing ways.

- High precision 4" x 10" measuring stage travel with .0001"/.002mm resolution precision glass scales. Quick release with fine adjust on X axis.

- Choice of several digital readout options including all QuadraChek geometric digital readouts.

- Quick change mount for factory preset magnification lenses.

- Nickel plated workstage for long life and corrosion resistance.

- Tungsten/halogen profile illumination (24V/150W) for bright, sharp images at all magnifications.

- Duplex fiber optic surface illumination.

- Optional digital screen protractor with readings to 1' or .01°.

4600



This is our top of the line 14" benchtop vertical beam optical comparator. The 4600 offers a 4" x 8" measuring stage travel plus an available 4" x 12" option. It features a 3-position lens turret and S-T's exclusive gothic arch bearing ways which provide the best in accuracy and life.

- High precision 4" x 8" or 4" x 12" measuring stages travel with .00005"/.001mm resolution precision glass scales. Quick release with fine adjust on X axis.

- Choice of several digital readout options including all QuadraChek geometric digital readouts.

- Quick change mount for factory preset magnification lenses in 3-position lens turret.

- Tungsten/halogen profile illumination (24V/150W) for bright, sharp images at all magnifications.

- Duplex fiber optic surface illumination.

- Digital screen protractor with readings to 1' or 01°.

- Available with motorized, joystick controlled stages.

- Available CNC option.

2450



The "2450" Series 24" erect image horizontal beam optical comparator features a more rugged structure, a 8" x 12" travel measuring stage and a 3-position lens turret. Over 60 years experience manufacturing optical comparators in the U.S., combined with its worldwide service organization makes S-T Optical Comparators your best buy.

- High precision 5" x 24" stage with 8" x 12" travel, .00005"/.001mm resolution precision glass scales and a 200 lb. load capacity, optional 8" x 16" travel.

- Motorized X and Y axis with joystick controls and X-Y fine adjust jog wheels.

- Digital screen protractor to 1' or .01°.

- 3-position lens turret.

- Duplex fiber optics surface illuminations.

- +/-15 deg. helix on stage.

- Swing away lamphouse.

- Long life Tungsten/halogen bulbs.

- Erect image.

- Exclusive gothic arch bearing ways on stage.

- Hood with curtains.

- Available CNC options.