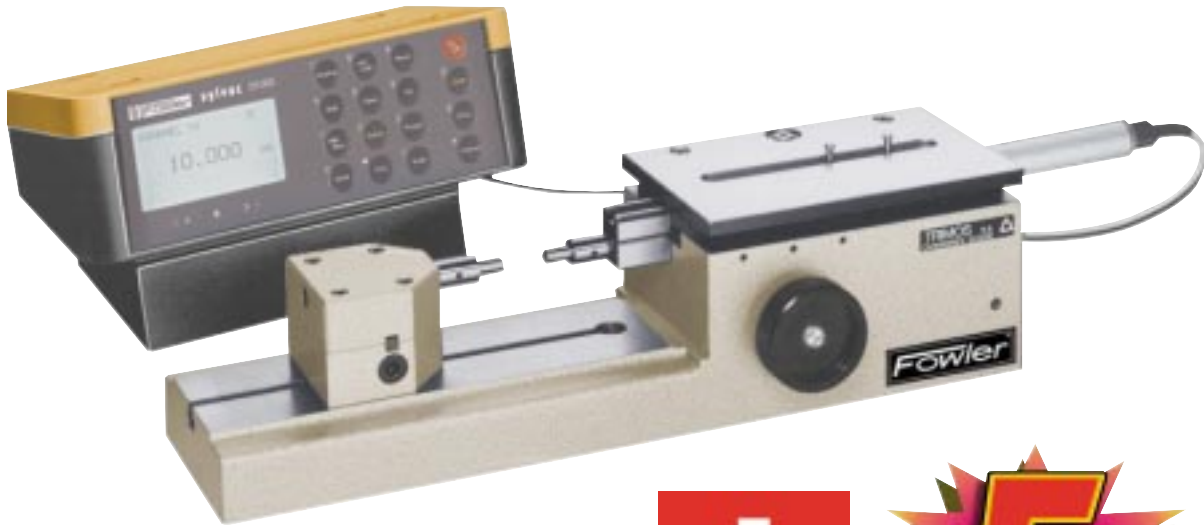




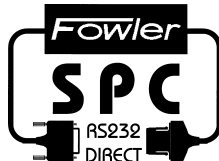
## Trimos TELS Mini-Horizontal System



▲Mini-Horizontal shown with optional Sylvac Display Unit #54-618-151 and probe #54-618-500 (not included).

The Fowler/Trimos Mini-Horizontal is a complete system for accurately measuring small internal and external sizes with a single gage.

Sylvac's electronic measuring system is recommended for use with the Mini-Horizontal because of its proven operational reliability. The display unit is the positive answer to a variety of measuring problems. In order to satisfy the demand of quality in production, a direct two-way RS232C data output allows connection to a printer or computer.



Using the multi-functional display unit D-100S (Fowler's 54-618-151) in connection with the Sylvac long travel probe 54-618-500, it is possible to obtain these basic functions:

- True inch/metric conversion with choice of 4 resolutions.
- Digital and analog display.
- Input of nominal sizes and tolerance limits.
- Classification (2 to 6 classes).
- Input of preselected values.
- Selection of measuring direction (↔).
- Channel selection (1 to 64).
- Value hold.
- Locking of the functions and of inch or mm display.
- External contact connection (foot-pedal or computer).
- Print-out of all values/data processing.





Internal measurements:  
.24"—4" (6—100mm) depending on accessories used

External measurements:  
0—4" (0—100mm). The effective measurement allows a range of 1" (25mm) which corresponds to the range of Sylvac probe #54-618-500.

External measuring range is increased by displacing the end stop (direct zero setting or setting of a preselected value).



Internal measuring range is increased by displacing the measuring inserts (setting of a preselected value according to a ring gage).

Accuracy:  
Within .00006" (1.5 $\mu$ ) — corresponds to accuracy of Sylvac probe #54-618-500.



Resolution:  
Using Display Unit #54-618-140 or #54-618-151, the resolution is .0001" or .00001" (.001 or .0001mm).

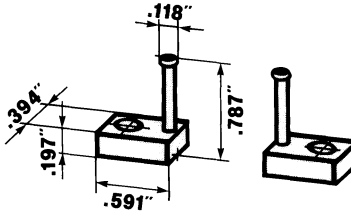
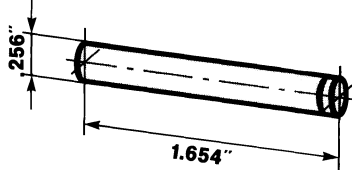
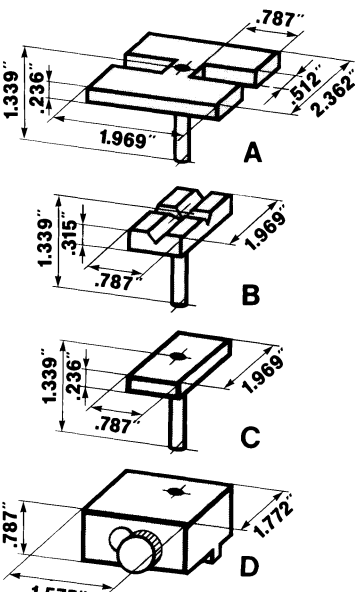
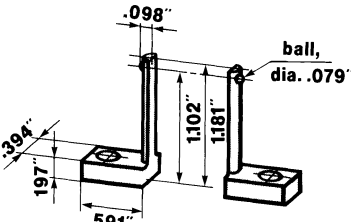
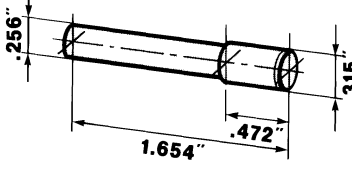
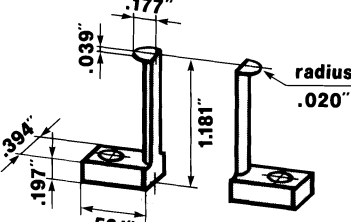
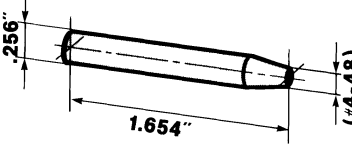
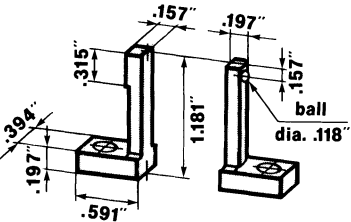
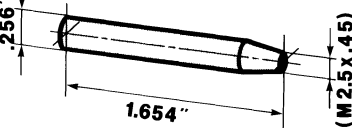
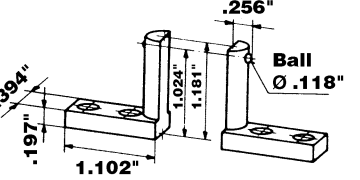
#### Mini-Horizontal Construction

- Monoblock construction with probe guide track.
- Adjustable end-stop with anvil location.
- Control knob for the displacement of the guide track of the monoblock (probe release).
- Adjustable measuring pressure device.
- Location for different measuring features, i.e. electronic probes or indicators, 8mm diameter.
- Interchangeable measuring anvils for external measurements (53-190-019 anvils—6.5mm diameter with tungsten carbide tipped measuring surface are supplied as standard).
- Interchangeable measuring inserts for internal measurements (53-190-020 Inserts—4.5mm diameter, rounded, are supplied as standard).
- Vertically adjustable table for internal measurement, hard chromed and ground surface, supplied as standard.



◆ *Top two: Measurements of internal diameters, grooves and distances. Bottom two: Measurements of lengths and external diameters.*



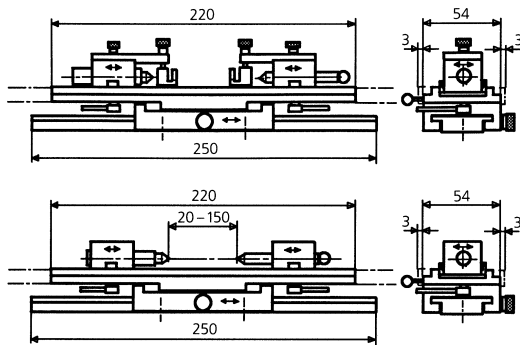
Internal Probes.	External Probes.	Supports & Tables.
 <p>▲ 53-190-020 Internal Probe Set (2 pc.) Standard, general purpose probes, included w/system.</p>	 <p>▲ 53-190-019 .256" diam. External Probe Set (2 pc.). Included with system. Carbide Tipped.</p>	 <p>▲ External Support System:</p> <p>A. #53-190-025 Adjustable Support with clearance.</p> <p>B. #53-190-026. Adjustable Support with crossed vee- grooves at 90° angles.</p> <p>C. #53-190-027. Adjustable Support Plate, plain.</p> <p>D. #53-190-028. Locking base w/vert. adjustment for #A, B &amp; C. (Required in order to use #A, B &amp; C).</p>
 <p>▲ 53-190-029 Internal Ball style Probe Set (2 pc.). Features .079" diam. ball on each probe.</p>	 <p>▲ 53-190-033 .315" Large Diameter External Probe Set. (2 pc.). Large surface, Carbide Tip.</p>	
 <p>▲ 53-190-030 Internal Groove style Probe Set. (2 pc.). Features thin, half-round discs on ea. end.</p>	 <p>▲ 53-190-034 #4-48 threaded external contact point holder (Ea.). Accepts any shape point.</p>	
 <p>▲ 53-190-031 Internal combination Ball &amp; Flat Probe Set (2 pc.). Has one side ball, one side flat.</p>	 <p>▲ 53-190-032 M2.5 x .45 thread external contact point holder (Ea.). Accepts any shape point.</p>	 <p>▲ 53-190-036 Large ball probe. One set of reinforced measur- ing inserts with ball contact for internal measurements.</p>

Special anvils are available, contact our technical department.



# Fowler

## Trimos TELS Mini-Horizontal System



#54-197-106



Order No.	Description
<b>Mini-Horizontal:</b>	
53-190-012	Mini-Horizontal with internal support plate, standard internal & external probes.
<b>Accessories:</b>	
53-190-020	Std. replacement internal probe set. (2 pc.) Included w/unit.
53-190-029	Internal ball probe set. (2 pc.)
53-190-030	Internal groove probe set. (2 pc.)
53-190-031	Internal ball /flat probe set. (2 pc.)
53-190-036	Large ball probe. (2 pc.)
53-190-019	.256" std. replacement external probe set. (2 pc.) Included w/unit.
53-190-033	.315" large diameter external probe set. (2 pc.)
53-190-034	#4-48 thread external contact point holder (each).
53-190-032	M2.5 x .45 thread external contact point holder (each).
53-190-037	.080" flat carbide probe (each).
53-190-025	Adjustable H support with clearance.
53-190-026	Adjustable support with crossed V-grooves.
53-190-027	Adjustable plain support plate, plane.
53-190-028	Locking adjustable base w/vertical adjustment for above supports.
54-197-106****	Floating measuring table (requires #54-190-803).
<b>Electronic Digital AGD Indicators:</b>	
54-520-777***	Ultra-Digit IV. 1" (25mm) x .00005" (.001mm)
54-520-888***	Ultra-Digit V. 1" (25mm) x .00005" (.001mm) or .0005" (.01mm)
54-522-700***	Ultra-Logic. 1" (25mm) x .0001" (.002mm)
54-522-800***	Ultra-Logic. 1" (25mm) x .00005" (.001mm)
<b>Bushings/Extensions:</b>	
53-190-017	Bushing for all AGD indicators to Mini-Horizontal.
53-190-018	Rack/extension for all AGD indicators to Mini-Horizontal.
<b>Sylvac Electronics:</b>	
54-618-500**	Sylvac probe: 1" (25mm) range.
54-618-140**	Sylvac D-80 Indication Unit.
54-618-151**	Sylvac D-100S Indication Unit.