

# Fred V. Fowler Company, Inc.



## Mestra-Touch Electronic Height Gage

The Fowler/Trimos Mestra-Touch 1-D/2-D height gage includes all the upgraded design features of the Vectra-Touch with a higher resolution, repeatability and accuracy.

- Intuitive touch screen
- XY measuring capability
- Angular measuring calculations
- Simplified memory sequence programs including tolerant limits input.
- Statistical analysis of measurements and protocol.
- Ambient temperature display can also be added to reports.
- Robust Trimos carriage system not compromised.
- The operating handle has been designed for optimum operator comfort, and includes programmable function keys.
- The motorized "Trimos Measurement Control" enables a smooth probe setting on surfaces and diameters, and guarantees a constant measuring force.



### Specifications:

Vectra - Touch models		300	600	1000
Measuring range	in	12"/305mm	24"/610mm	40"/1016mm
with 2nd probe holder	in	22"/567mm	34"/872mm	50"/1278mm
Resolution	in		0.0001"/0.0001mm	
Max. permissible errors	µm		1.4+ (L(mm)/400)	
Repeatability	in		.00002"/.00004"	
Manual carriage displacement speed	mm/s.		1000	
Motorized carriage displacement speed	mm/s		150	
Measuring force, adjustable			0.5-1.8N	
Squareness deviation	in	.00016"	.00024"	.00039"
Power supply			rechargeable battery pack	
Battery life	h	8		
Available interface connections		2x RS232C, 2x USB (A and B)		
Operational temperature		50 to 104° F/°C+10 to 40		
Total Height	mm	25.4"/645mm	37.4"/950mm	53.4"/1357mm
Weight	kg	35.2lbs/16kg	41.8lbs/19kg	50.6kg/23kg

The values of max. permissible error and repeatability are valid only when using the standard probe (measuring insert with tungsten carbide ball, 4mm L=90 mm), at temperature of 20±1 °C and relative humidity of 50± 5%.

Order No.	Description
54-194-301	12"/300mm Mestra Electronic Height Gage
54-194-601	24"/600mm Mestra Electronic Height Gage
54-194-901	40"/1000mm Mestra Electronic Height Gage



## Vectra and Mestra-Touch Accessories

<b>Order No.</b>	<b>Description</b>
54-194-016	<b>Micro Probe Accessory Set</b> <i>(Image on previous page)</i> <b>Includes:</b> Case Hemispheric insert Probe with pin (plus 4 additional pins) Disc-shaped insert Ø 7.7mm Disc-shaped insert Ø 11.5mm Corner insert 1mm Measuring insert of test indicator Ø 1mm Measuring insert of test indicator Ø 2mm Measuring insert of test indicator Ø 3mm Measuring insert holder for: M2.5, M1.6, M1.4 Insert holder L=80mm M2.5 Insert holder 90° L=80mm Ø 4mm Measuring insert holder Ø 1mm Ruby Ball Probe Ø 2mm Ball Probe Ø 1mm Knife-edged measuring probe L=88mm Holder with reduction 8mm/4mm Swivel holder Ø4/Ø8mm Key for ball insert Hex wrench 1.5mm Hex wrench 2.5mm
54-194-017	<b>Macro Probe Accessory Set</b> <i>(Image on previous page)</i> <b>Includes:</b> Case Carbide Ball Probe Ø 4mm Carbide Ball Probe Ø 2mm Carbide Probe with pin Ø 1.5mm Swivel holder 90° Ø 4mm Measuring insert holder Ø 2mm Insert holder (metric) M2.5 Insert holder L=124mm M2.5 Insert holder L=200mm M2.5 Hemispheric insert Disc-shaped insert Ø 18mm Measuring insert of test indicator Ø 1mm Measuring insert of test indicator Ø 2mm Measuring insert of test indicator Ø 3mm Key for ball insert Hex wrench 2.5mm





## Vectra and Mestra-Touch Accessories

Insert holder (metric) M2.5 L=95 mm

Insert holder (Inch) 4-48 L=95 mm  
54-194-930, 54-194-931



Insert holder (metric) M2.5 L=300 mm

Insert holder (Inch) 4-48 L=300 mm  
54-194-607, 54-194-608



Holder with reduction 8 mm/4 mm

For use with Sylvac Probes 54-194-934



Swivel holder  
Ø 8 mm, Ø 4 mm

54-194-935



Swivel holder  
Ø 8 mm, Ø 4 mm L=150 mm

54-194-936



Swivel holder  
Ø 8 mm, Ø 4 mm L=300 mm

54-194-610



Insert holder 90° Ø 4 mm L=65 mm

54-194-938



Insert holder 90° Ø 8 mm L=85 mm

54-194-939



Insert holder 90° Ø 4 mm L=150 mm

54-194-940



Insert holder 90° Ø 8 mm L=150 mm

54-194-940



Insert holder 90° Ø 4 mm L=300 mm

54-194-941



Measuring insert holder Ø 2 mm

54-194-942



Measuring insert holder Ø 2 mm

54-194-943



Measuring insert holder for  
M2.5, M1.6, M1.4

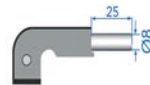
Measuring insert holder for  
4-48, M1.6, M1.4

54-194-948, 54-194-949



Electronic probe  
run 12 mm, accuracy ± 1 µm

54-194-605



Setting gauge 25 mm

Setting gauge 1"

54-194-070, 54-194-075



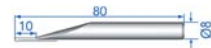
Ball probe tungsten carbide Ø 1mm

54-194-905



Ball probe tungsten carbide Ø 2mm

54-194-906



Ball probe tungsten carbide Ø 2mm

54-194-907



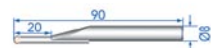
Ball probe ruby Ø 2mm

54-194-908



Ball probe tungsten carbide Ø 4mm

54-194-909



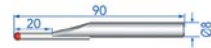
Ball probe tungsten carbide Ø 4mm

54-194-910



Ball probe ruby Ø 4mm

54-194-911



Probe with pin tungsten carbide Ø 1.5mm

54-194-912



Measuring insert with parallel faces

54-194-913



Barrel-shaped  
insert for M3-M16

54-194-914



Barrel-shaped  
insert for M6-M48

54-194-915



Barrel-shaped  
insert for M12-M150

54-194-916



Macro Probe Kit  
54-194-017



Micro Probe Kit  
54-194-016

