





# itaca

 A Quality Vision International Company



## FlexGauge T-Series

### High Accuracy Shop Floor 3D Gaging Solution

The Itaca FlexGauge offers a flexible and rugged alternative to custom gaging solutions.

FlexGauge T models are designed for measuring small precision parts such as gears, valve bodies, c-v joints, racks and ball screws.

With the stability of the granite structure and air bearing motion system, and short probe reach, FlexGauge T models offer high accuracy performance in the workshop.

- High Speed Probing
- Single or Dual Probe Configuration
- Touch-Trigger or Scanning Probe Configurations
- Shop Floor Friendly with Built-In Thermal Compensation
- Flexible Software

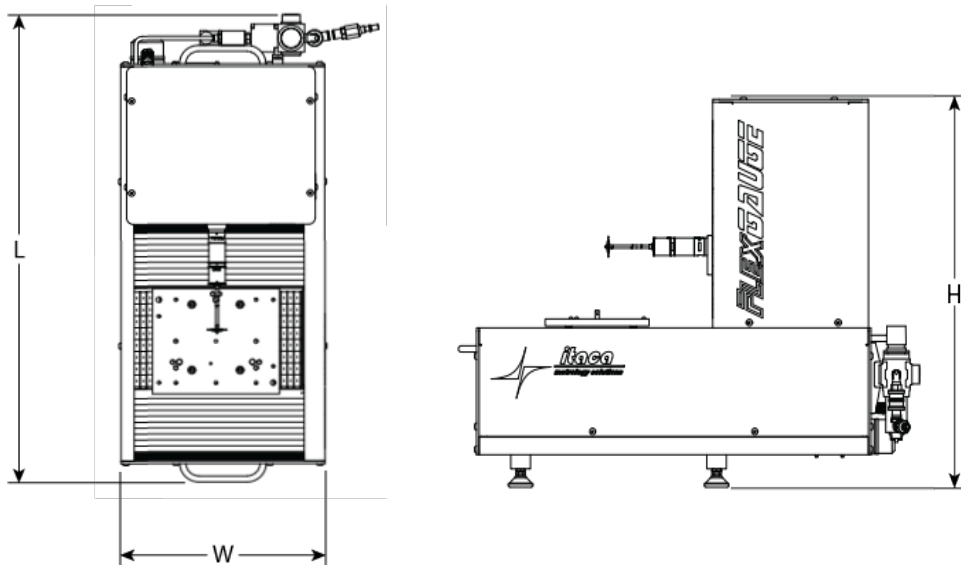


	X	Y	Z
Travel (mm) T-16	160	100	160
Travel (mm) T-25	250	160	250

The part moves in the X & Y directions. The probes move in Z.



# FlexGauge T-Series



	Standard	Optional
<b>X,Y,Z Travel (mm)</b>	T-16: 160 x 100 x 160 T-25: 250 x 160 x 250	
<b>Dimensions (mm)</b>	T-16: L:608 x W:305 x H:550 T-25: L:708 x W:380 x H:660	
<b>Weight (kg)</b>	T-16: Measuring Unit: 48 Crated: 100 T-25: Measuring Unit: 60 Crated: 120	
<b>X,Y,Z Scale Resolution</b>	0.1 $\mu\text{m}$	0.1 $\mu\text{m}$ temperature invariant
<b>Axis Motion Controller</b>	Pantec EagleBasic controller with joystick control for touch-trigger probing	Pantec EagleBasic+ controller with joystick control for scanning probe operation; Renishaw UCC2 controller for touch trigger or scanning probe
<b>Stage Drive System</b>	DC Servo Drives X, Y & Z	
<b>Motion Dynamics</b>	Max Velocity: 550 (mm/sec) Max Acceleration: 1400 (mm/sec <sup>2</sup> )	
<b>Max Recommended Load (kg)</b>	7	
<b>Probe Configurations</b>	TP20 touch probe Single probe support arm configured for the application	TP200 touch probe; SP25 scanning probe; Star probe Dual probe support arm; Docking station
<b>System Controller</b>	QVI dedicated system controller with Windows® operating system and on-board communication ports	
<b>Controller Accessory Package</b>	Single LCD flat panel display, keyboard and mouse	Dual LCD flat panel displays, keyboard and mouse
<b>System Software</b>	Itaca TANGRAM Metrology Software	SmartProfile®, SmartReport®, iGear, Custom user interface
<b>Power Requirements</b>	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 700W	
<b>Air Requirements</b>	Clean, dry air at 5.5 bar per min, 4.0 SLPM flowrate	
<b>Rated Environment</b>	Temperature: 15-25°C (1°C/hour rate of change) Humidity: 30-80% Vibration: <0.0015g below 15Hz	15-35°C (3°C/hour rate of change) with temperature invariant scales
<b>Accuracy</b> <sup>1,2,3</sup> (at 20°C)	MPE <sub>e</sub> : 1.0 + L/300 $\mu\text{m}$ ; Max: 1.5 $\mu\text{m}$ (with TP20)	MPE <sub>p</sub> : 1.2 $\mu\text{m}$ (with SP25)
<b>Notes:</b>	1. All specifications apply to a thermally stable machine and certified artifact at 20°C, with temperature monitoring and compensation of the sample part. 2. Maximum vertical temperature gradient: 1° C/Meter. 3. Based on ISO 10360.	



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