



 A Quality Vision International Company

FlexGauge C-Series

High Accuracy Shop Floor 3D Gaging Solution

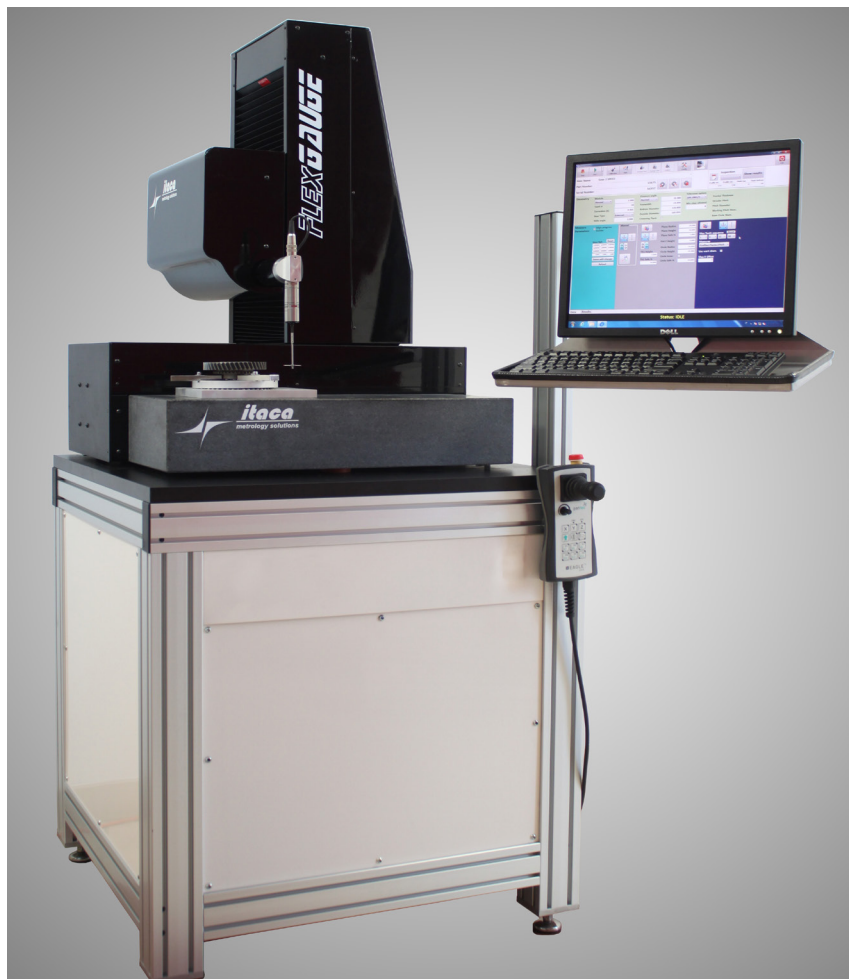
The Itaca FlexGauge offers an industrialized and rugged alternative to custom gauging solutions. C-Series systems are specially tailored for medium and large sized precision parts such as gears, valve bodies, turbine blades, shafts, racks and ball screws.

With the stability of a granite support structure and Ceramic, Glass or Laser scales, FlexGauge C-Models are equally at home on the manufacturing floor or in the quality control laboratory.

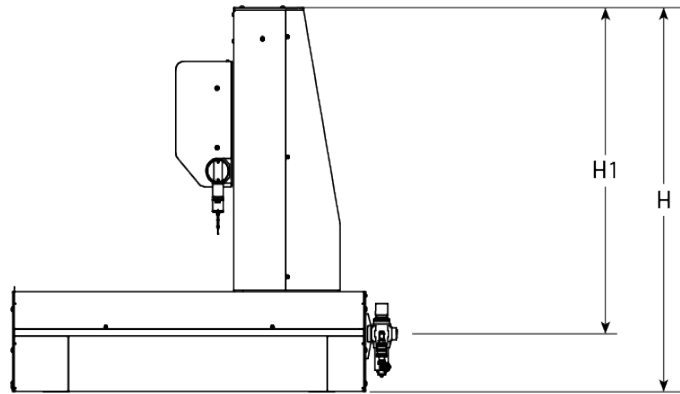
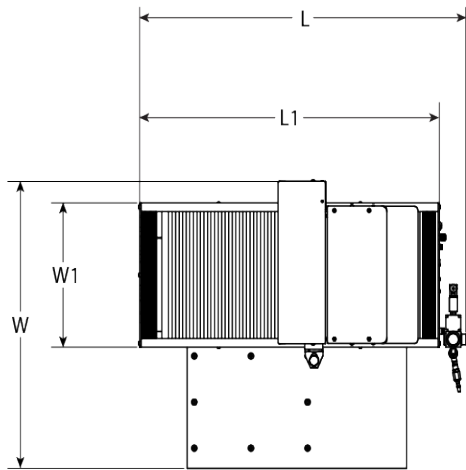
- High Speed Probing
- Single or dual probe configurations
- Touch-Trigger or Scanning Probe
- Shop Floor Friendly with Built-In Thermal Compensation
- Flexible Software
- X-Axis Travel Extensions up to 3 meters

Travel (mm)	X	Y	Z
C-35	350	200	250
C-35+	350	300	350
C-100	1000	300	350
C-150	1500	300	350

The part is fixed and does not move. The probe moves in X, Y & Z



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	Standard	Optional
X,Y,Z Travel (mm)	C-35 350 x 200 x 250 C-35+ 350 x 300 x 250 C-100 1000 x 300 x 350 C-150 1500 x 300 x 350	
Dimensions (mm)	C-35 L: 715 x W: 846 x H: 863 L1: 615 x W1: 360 x H1: 733 C-35+ L: 866 x W: 846 x H: 980 L1: 766 x W1: 360 x H1: 850	Dimensions for C-100 and C-150 models available on request
System Weight (kg)	C-35 Measuring Unit: 130 Crated: 185 C-35+ Measuring Unit: 244 Crated: 300	Weights for C-100 and C-150 models available on request
X,Y,Z Scale Resolution	0.1 μm	0.1 μm temperature invariant
Axis Motion Controller	Pantec EagleBasic controller with joystick control for touch-trigger probing	Pantec EagleBasic+ controller with joystick control for scanning probe operation; Renishaw UCC2 controller with joystick for touch-trigger or scanning probe
Stage Drive System	DC Servo Drives X,Y & Z	
Motion Dynamics	Max Velocity: 550 (mm/sec) Max Acceleration: 1400 (mm/sec ²)	
Max Recommended Load (kg)	25	
Probe Configurations	Carbon fiber probe support arm with TP20 configured for the application	TP200 touch probe; SP25 scanning probe; Star probe Dual probe support arm; Docking station
System Controller	Quad core processor, Windows® 7 Operating System and on-board communication ports	
Controller Accessory Package	Multi-function hand controller including 3-axis joystick for manual stage control, with E-stop and start buttons	Single LCD flat panel display, computer keyboard and mouse; Dual LCD flat panel displays
System Software	Itaca TANGRAM Metrology Software	SmartProfile®, SmartReport®, iGear, Custom user interface
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 700W	
Air Requirements	Clean, dry air at 5.5 bar per min, 4.0 SLPM flowrate	
Rated Environment	Temperature: 15-25°C, stable to 1°C / hour Humidity: 30-80% RH Vibration: <0.0015g below 15Hz	15-35°C, stable to 3°C/hour
Accuracy ^{1,2,3} (at 20°C)	MPE _p : 1.0 + L/300 μm ; Max: 1.5 μm (with TP20)	MPE _p : 1.2 μm (with SP25)
Notes:	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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