

SmartScope ZIP 300 is a high performance floor model system designed for high accuracy and repeatability on larger, heavier parts. ZIP 300 also offers:

- Built-in Measurement Stability –
 The heavy-duty steel frame,
 granite surface plate and cast-iron
 worktable provide a very thermally
 and mechanically stable platform.
- Accurate Video Metrology –
 AccuCentric® motorized zoom
 lens automatically compensates
 magnification for each zoom
 position. ZIP 300 offers optical
 configurations to suit a wide range
 of applications.
- Multisensor Versatility –
 Optional touch probes, lasers and micro-probes.

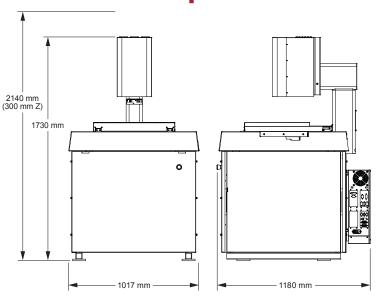
High Accuracy Multisensor Metrology System





ZONE3® Metrology Software represents a totally new way of working with multisensor measurement systems, providing faster, easier, and more productive measurements.

SmartScope ZIP® 300



System Weight: 750 kg Shipping Weight: 1000 kg

	Standard	Optional
XYZ Travel	300 x 300 x 200 mm	Extended Z axis, 300 mm
XYZ Scale Resolution	0.1 µm, including dual Y-axis scales	0.05 µm
Drive System	DC servo with 4-axis control (X, Y, Z, zoom); with multifunction handheld controller	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 30 kg recommended max payload	
Rotary Axis	Transcat and 22d, with interest follow, removable to	Miniature Servo Rotary (MSR**), MicroTheta Rotary (MTR**), Heavy Duty Rotary (HDR), High Precision Rotary (HPR**), Dual Rotary (requires optional 300 mm Z axis)
Optics*	AccuCentric® auto-compensating zoom, motorized; 1.0x lens; 2.0x lens attachment; 1.0x adapter tube	Focus Grid Projector: LED or Tungsten fiber-optic sources Laser Adapter: Allows for field retrofit of TTL Laser. Includes Laser Pointer Replacement Lenses: 1.0x Long Working Distance (LWD), 2.5x, 5.0x Laser Lenses: 2.0x (included with TTL Laser), 5.0x Lens Attachments for 1.0x Lens: 0.5x, 0.75x, 1.5x Factory Installed Adapter Tubes: 0.67x, 2.0x
Illumination	Substage LED profile, coaxial LED surface, SmartRing™ LED ring light (white)	Coax Light: Tungsten Fiber-Optic Ring Lights: Red, Green, or Blue SmartRing; Standard or Low Incidence VuLight; Tungsten Fiber-Optic Ring mounted below, integrated with, or in lieu of SmartRing
Metrology Camera	Monochrome digital metrology camera	
Field of View**	6.6 mm x 5.0 mm (no attachment, low zoom) to 0.7 mm x 0.5 mm (2.0x lens attachment, high zoom)	15.0 mm x 11.3 mm (0.67x tube, 1.0x lens, 0.5x attachment) to 0.13 mm x 0.10 mm (2.0x tube, 5x lens)
Working Distance	63 mm (no attachment) 24 mm (2.0x lens attachment)	Up to 98 mm (1.0x LWD, 0.5x attachment)
Sensor Options***		Tactile: TP20 or TP200 Touch Probe, SP25 Scanning Probe, Feather Probe [™] Non-Contact: DRS [™] Laser, Through-The-Lens (TTL) Laser, Rainbow Probe [™] , TeleStar [®] Probe
Software	Choice of ZONE3 Express or Measure-X metrology software QVI® Portal	Metrology software: ZONE3 Prime, ZONE3 Pro Productivity software: Measure-X® Analyze, SmartFit® 3D, OGP® EVOLVE® Suite (Design, EVOLVE SPC, Manufacturing, SmartProfile®) Offline software: ZONE3, Measure-X
System Controller	Windows® based, with up-to-date processor and onboard networking/communication ports	
Controller Options	Ergonomic sit/stand operator workstation	24" flat panel LCD monitor, or dual 24" flat panel LCD monitors, keyboard, 3-button mouse (or user supplied)
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 1350 W	
Safe Operating Environment	15-30 °C, non-condensing	
Rated Environment	Temperature 18-22 °C, stable to ± 1 °C, max rate of change 1 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz	
XY Area Accuracy	E ₂ = (1.5 + 5L/1000) μm	
Z Linear Accuracy	E ₁ = (2.5 + 5L/1000) µm	E ₁ = (2.0 + 5L/1000) μm (requires optional TTL Laser) E ₁ = (1.4 + 5L/1000) μm (requires optional DRS Laser, Touch Probe, or TeleStar Probe)

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Standard optical specifications apply at the maximum optical magnification of the standard configuration. XY Accuracy applies with an evenly distributed load up to 5 kg in the standard measuring plane. Depending on load distribution, accuracy at maximum payload may be less than standard. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface.

"Lenses and lens attachments can be manually interchanged to change magnification and working distance. Adapter tubes can be manually changed to change magnification without impacting work distance, but unlike lens changes, adapter tube changes require optical system realignment and recompensation. "FOV sizes are 15% smaller in Measure-X. ""SP25, Feather Probe, Rainbow Probe, and TeleStar Probe only supported in ZONE3.



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