

High Performance Model

3D SPI

AUTOMATED OPTICAL INSPECTION

TR7007D Plus SERIES



High Precision Platform for Reliable Gauge R&R



Enhanced 2D Light for Improved Imaging



Smart Programming: Algorithm based Inspection



EtherCAT - Faster Communication



Smart Board Warpage Control



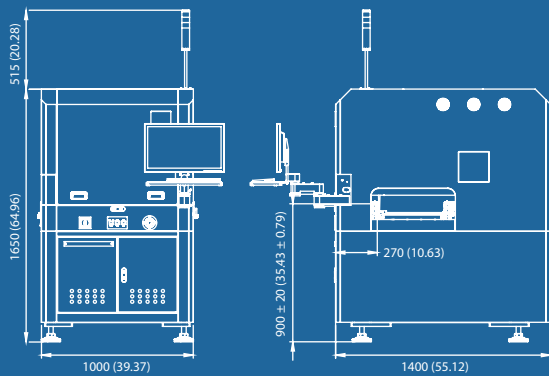
Real Time SPC Trends

TRI
innovation

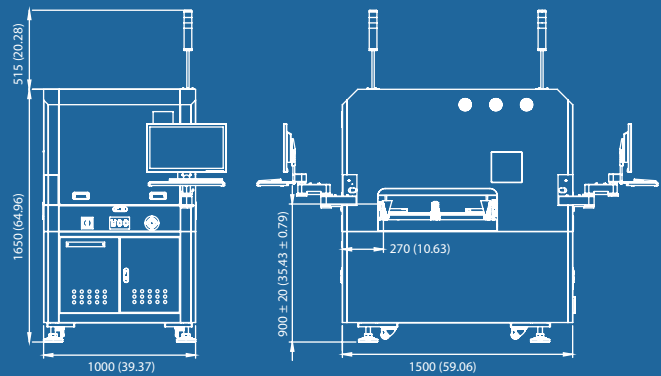


Model		TR7007D Plus	TR7007D Plus DL
Imaging System	Camera	4 MP High Speed Camera	
	Optical Resolution	10 μm/15 μm	
	3D Technology	Dual Digital Fringe Pattern Projector	
	Lighting	Enhanced 2D Lights (RGB+W)	
	Field of View	20x20 mm (0.79 x 0.79 in.)	
Inspection Functions	Inspection Speed	Up to 3 FOV/sec	
	Defects Detected	Insufficient Paste, Excessive Paste, Shape Deformity, Missing Paste & Bridging	
	Measurement	Height, Area, Volume and Offset	
Mechanical Stage	Stage Type	XY-Axis Ball Screw	
	Motion Control	EtherCAT	
	XY Resolution	0.5 μm	
Inspect Performance	Volume Repeatability	Calibration Target (at 3σ) <1%	
	Height Repeatability	Calibration Target (at 3σ) <1%	
	Height Accuracy	Solder GR&R (±50% Tolerance) <<10% at 6 σ	
	Max. Solder Height	1.5 μm on Calibration Target	
	Height Resolution	420 μm/840 μm	
PCB and Conveyor System	Min PCB Size	50 x 50 mm (1.97 x 1.97 in.)	
	Max PCB Size	510 x 460 mm (20.08 x 18.11 in.)	510 x 310 mm (20.08 x 12.20 in.) x 2 lanes 510 x 590 mm (20.08 x 23.23 in.) x 1 lane
	PCB Thickness	0.6 - 5mm (0.02 - 0.20 in.)	
	PCB Transport Height	880 - 920 mm (34.65 - 36.22 in.)	
	Max PCB Weight	3kg (6.61 lbs), Optional: 5kg (11.02 lbs)	
	PCB Carrier / Fixing	Belt/Pneumatic	
	Clearance	Top Bottom Edge	50 mm (1.97 in.) 40 mm (1.57 in.) 3 mm (0.12 in.)
Weight		750 kg (1653.47 lb)	830 kg (1829.84 lb)
Power Requirement		200 - 240 VAC, Single Phase, 50 / 60 Hz, 3 kVA	
Air Requirement		72 psi - 87 psi (5 - 6 bar)	
Optional		SPC, Offline Editor, Gerber Scanner (Linear & 2D) and Support Pins, Closed Loop Function, Yield Management System (YMS 4.0), Linear Encoder Module	

Unit: mm (in.)



TR7007D Plus



TR7007D Plus DL

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TRI 德律 TRI INNOVATION

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