

# SPECIFICATIONS

## TR7700Q SII AOI Machine @ Smartlink-SMT

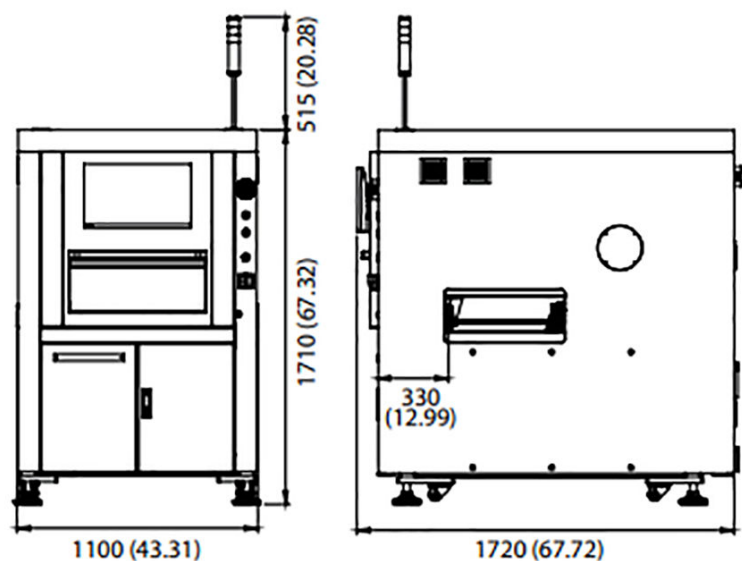
TR7700Q SII AOI Machine		
Optical System		
Imaging Method	Stop-and-Go	
Angle Camera	N/A	
High Speed Camera	12 MP	21 MP High Speed Camera
Imaging Resolution	10 μm / 12 μm / 15 μm (18 μm is available for TR7700QH SII, 12 μm is available for TR7700QH SII & TR7700QH SII DL)	8 μm / 10 μm
Max. 3D Height Range	40 mm	
3D Technology	Quad Digital Fringe Projectors	
Lighting	Multi-phase True Color LED	
Imaging speed	12 MP@ 18 μm: 70 cm²/sec	
	21 MP@ 12 μm: 60 cm²/sec	
	21 MP@ 15 μm: 80 cm²/sec	
Board Handling		
Min. PCB Size	50 x 50mm	
Max. PCB Size	510 x 460 mm	
PCB Thickness	0,6 - 5mm	
Conveyor	880 - 920 mm	
Max PCB Weight	3 kg / 5 kg (optional)	
PCB Carrier / Fixing	Step Motor Driven	
Clearance (Top)	20 mm	
Clearance (Bottom)	40 mm	
Clearance (Edge)	3 mm	
Inspection Performance		
Component Defects	Missing, Tombstoning, Billboarding, Polarity, Rotation, Shift, Wrong Marking (OCV), Defective, Upside Down, Extra Component, Foreign Material, Lifted Component	
Solder Joint Defects	Solder Fillet Height, Solder Volume %, Excess Solder, Insufficient Solder, Bridging, Through-hole Pins, Lifted Lead, Golden Finger Scratch/ Contamination	
X-Y-Z Axis Control	BallscREW + AC Servo with Motion Controller	
X-Y Axis Resolution	1 μm	
Inspect Performance height Repeatability	3σ<1 μm	
Inspect Performance eight Accuracy	+/- 2 μm	

All technical data has been carefully checked; however, we assume no liability for its accuracy or completeness.  
Subject to change without notice.

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TR7700Q SII AOI Machine	
Factory Requirements	
Power Requirement	200 – 240 VAC, single phase, 50 / 60 Hz, 3 kVA
Air Requirement	72 psi – 87 psi (5 – 6 bar)
Weight	910 kg
Conveyor	Inline Height: 880 – 920 mm / 925-965 mm (optional)
WxDxH	1100 x 1720 x 1710 mm (without signal tower, height 515 mm)
Options	
	Hardware Barcode Scanner
	Offline Station PC
	Repair Station PC
	Software Barcode Scanner
	Support Pin AOI
	SPI in each machine
	Dual Blue 3D laser
	Multiphase lighting system



**TR7700Q SII**