

Unicomp Technology

Brief Introduction of Unicomp CX7000L X-Ray Chip Counter









Existing SMT Factory Chip Counting Conditions





- **1. Efficiency loss**: Average 3-5 minutes for a tape & Reel with traditional semi-auto counter.
- **2. Material loss**: Approximate 6-10 pcs components will be lost (at the head & end of carrier).
- **3.** Low accuracy: Part counter accuracy is low, less than 90% or even lower.
- **4. Missing information**: Roll to empty tape without original component package information.
- **5. Headcount**: Need 4 dedicated materials handlers to count for day and night shift (10 lines).
- 6. Data Update: Quantity data not able to updated in real time with ERP & MES system.
- 7. Quality Issue: With risk of tape film loosing after rolling caused Pick & Place failure.

Necessity of X-ray Chip Counter Machine

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- Materials receiving & Incoming inspection & In-house labeling
- Components quantity verification for customer consignment project
- Remaining quantity counting after production changeover
- Monthly inventory in production line and warehouse
- High Operators turn over rate & difficulty of recruitment
- Components inventory dynamic system updating importance for operations
- Non-destructive touch on the tape & components



X-Ray Chip Counter Vs. Traditional Counter

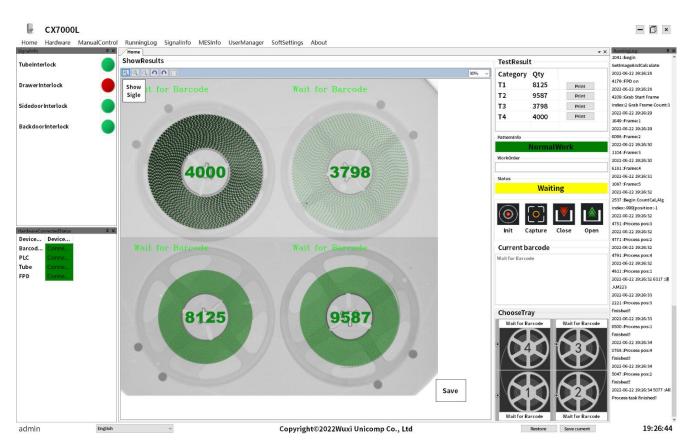


Features Comparison	X-ray Chip Counter	Traditional Counter
Efficiency	9-10 Seconds/ Reel	3-5 Minutes / Reel
Daily Output	4000 reels	240 reels
Accuracy	≥ 99.99%	≤ 90%
Components Loss	No any loss	6-10 pcs loss / reel (\$\$ Loss)
Labeling	Right quantity & new Label	Quantity marking manually
Headcount (10 lines)	1 operator	4 operators
Data Update	Real-time with ERP & MES	Manual Key-in/no error-proof
R.O.I (only Labor cost)	1.5 Years	

Unicomp X-Ray Chip Counter

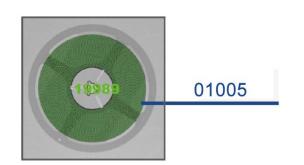


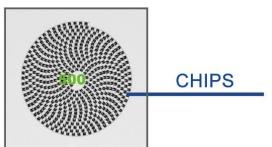




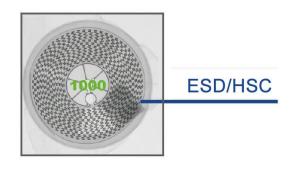
Unicomp X-Ray Chip Counter

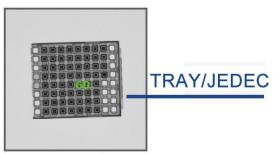


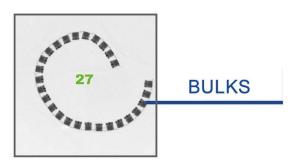












Unicomp X-Ray Chip Counter Advantages

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- Fast speed & high accurate Chip counting, reducing labor cost
- One-button operation, Automatic counting.
- > Minimum component size 01005
- > System Accuracy >99.99%
- > Count time<10s 7" -17" Tape & Reel (Quad of 7" T &R)
- > Auto-scan barcode with scanner or camera
- New label printing with P/N and quantity (Editable)
- Integration to ERP & MES system (csv. or xml)
- > Real time radiation dose meter surveillance

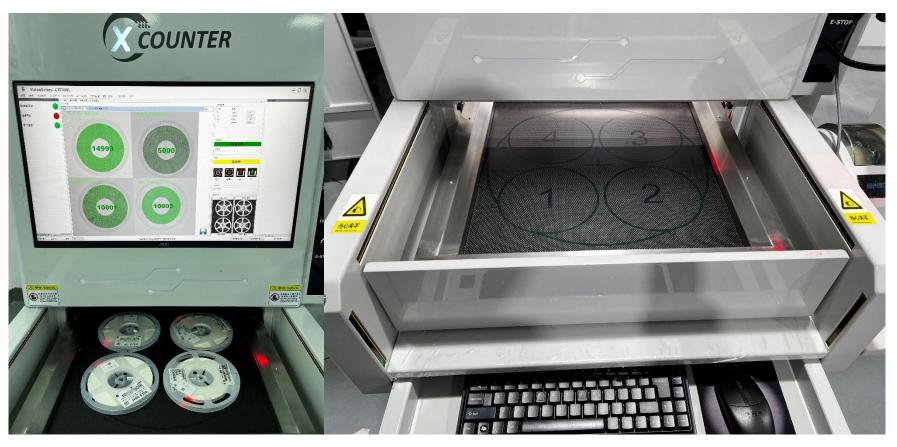






Drawer and Software Interface





Assembly Workshop





Assembly & Installations









Safety Protection







CX7000L X-Ray Counter



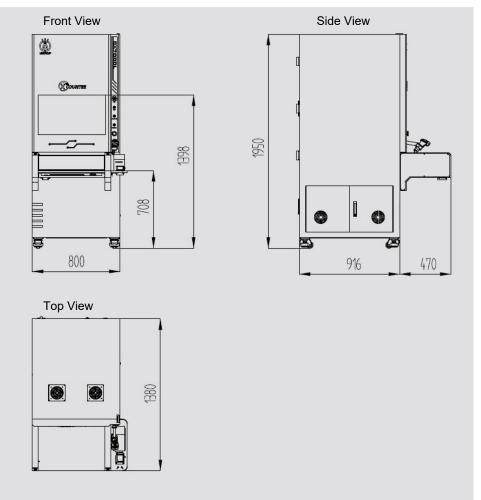


SMD Chip Counter

Main Item	Specifications	
X-Ray Tube	50kV or 80kV 0.03mm Closed Tube (Option)	
Image Detector	FPD 430mm*430mm	
Tape Size	7"-17" tape & reel	
Counting Accuracy	≥ 99.99%	
Min. component	01005	
Max. reel height	88mm	
Counting Speed	< 10s (7-17 " Single Reel with any size)	
Counting Speed	< 10s (Quad with 7" reel)	
Package	Chip, ESD with Desiccant, JEDEC Tray, Tube, Snippets	
Database	MES, ERP, Warehouse, Component Tower	
Accessories	Barcode Scanning, Label Printer, Fingerprint Access, Dose Meter	
Industrial Computer	Win 10 (64), I7, RAM:16GB, HDD:1TB +512G	
Monitor	21.5" FHD LCD Display	
Machine Size/Weight	1000*1380*1950mm 800kg	

CX7000L X-Ray Counter

Footprinter (mm)







Thank You



www.global-xray.com www.unicomp.cn

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