



INLINE XC-3100

X-Ray high-precision intelligent online dispensing machine

X-Ray Inline Automatic Counting System



INLINE XC-3100 is mainly used for rapid counting of reel materials in the SMT industry. It can count 7-15 inch Tape Reel/

JEDEC Tray/IC moisture sensitive bags and other full range of materials, the material types include all resistance and capacitance materials and IC materials. Take advantage of X

Radiography technology can fully automatically detect production materials and obtain image information for rapid counting, and combine the data with the system.

System docking and saving.

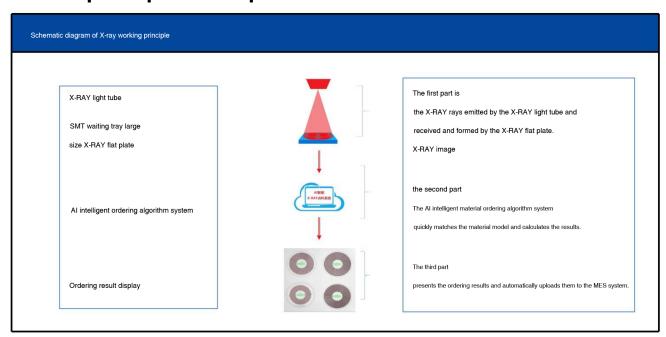
Features and advantages:

Function	Fully automatic loading and unloading tray
	Intelligent AI automatic code reading
	Automatic labeling, automatic labeling of blank positions, and visual positioning of rotation angles
Features	Minimum 0201 recognition accuracy rate is as high as 99.99%
	No fear of special shaped materials and bulk materials
	Automatic X-RAY imaging, automatic analysis and automatic point counting
	No operating desk, embedded display, saving space
	Read all label codes of the material tray and output MES
	Connected to MES, DATABASE data can be updated automatically
	Automatic loading and unloading, automatic labeling
Advantage	Can click on different trays at the same time, image at the same time, and automatically number/count
	9-15S/timo fast reading
	Reduce the number of processes, shorten process routes, and improve efficiency
	Comes with its own database, providing query and printing

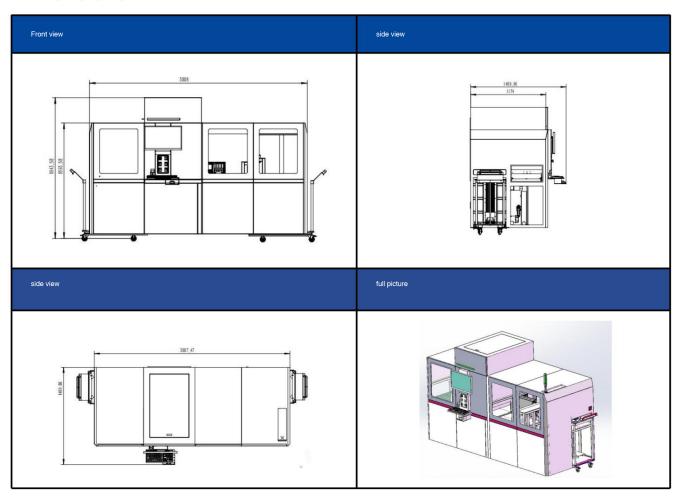
Specifications:

	Model	XC-3100-INLINE	
Tube	Tupe tape	Closed	
	Spatialresolution	30μm	
	Tube voltage	50kV (Limit 80kV)	
	Tube current	0.01-1mA	
Tablet	Image acquisition method	Flat-panel digital imaging	
	Imaging accuracy	139µm	
	Image size	427*427mm	
	Resolution	3072*3072px	
	Pixela ccuracy	≤2µm	
Camera	Imaging speed	5 EDS/s	
	Code reading pixels	20 million/Inch	
System	Misjudgment rate (0201)	≤0.01%	
	Accuracy	99.99% (0201 for example)	
	Minimum part size detectable	008004	
	Operatingsystem	WINDOWS 10	
	Order record keeping	Save by day,no capacity limit , TXT.CSV.XLS	
	Power supply	AC110-220V 50-60HZ	
	Power	1200W	
	Radition safety test	<1 uSV/H	
	Repeatability testing	≥2.0sigma	
	CYCLE TIME	≤15s/time	
Stracture	Counting speed	9-15 S/tray (CHIP 0201)	
	Maximum disc diameter	415mm (4-15INCH)	
	Maximumheightofcheckable materialtray	1-80mm	
	Maximum weight of detectable reels	≤10kg	
	Machine size	3087*1194*1957mm(L*W*H)	
	Machine size(Including printer)	3087*1488*1957mm(L*W*H)	
	Machineweight	1500kg	

X-RAY principle description :



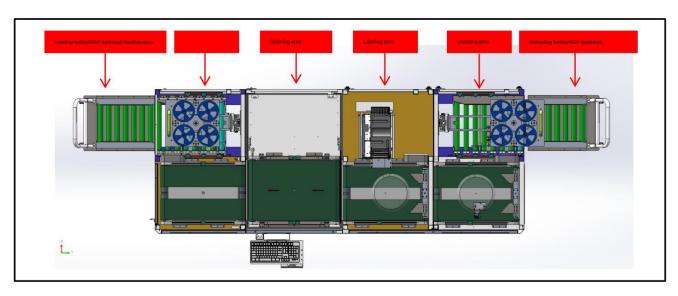
Dimensions:



Online fully automatic operation process:



Ordering Flow Chart:

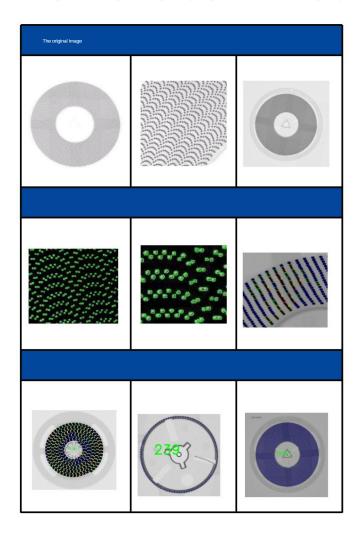


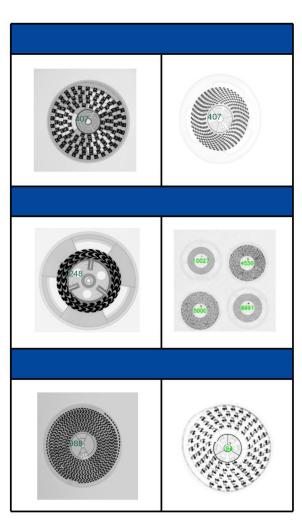
Quality equipment parameters:

Printer specifications							
	Printing module	resolution	8 points/mm (203 DPI)				
		Maximum print speed/width 1	52.4mm (6")/sec/108mm (4.25")				
		Volume size	204mm (width) X 164mm (height) X 280mm (length)				
6 Quality		weight	2.4 kg (5.29 lbs)				
	Hardware specifications	Memory	8 MB Flash memory, 16 MB SDRAM				
		Communication Interface	USB2.0, serial port (RS-232)				
		buzzer	standard				
	Power Specifications	enter	AC 100-240V, 2A, 50-60HZ				
		output	DC 24V, 3.75A, 90W				
	Paper specifications	Paper type	Continuous paper, spaced paper, black mark paper, folded paper, perforated paper (outside roll type)				
		Minimum paper length 5 mm	0.2")				

Al algorithm principle (Algorithm Principle):

Calculation legend:





Compared with traditional dispenser:





INLINE XC-3100 Intelligent Online Pointing Machine		Traditional dosing machine + manual	
Ordering speed 9-15S/tin	е	80S/time	
4-axis robot loading _{an} Inventory cycle	Fast and efficient: Originally, the workload of several days was manually counted. The dotting machine often takes a few hours to complete. Material label error proofing machine system, full induction recognition of the material tray, real-time docking with the printer, Take any tray of materials and instantly print the material information on the tray.	The cycle is long: a document goes from filling in, collecting to keyboard input. takes a day or more, which makes the production scheduler only It can provide users with inventory information based on the inventory information from the previous few days or even a week ago. Set a delivery date.	
data transmission 4-axis robot loading	Realize data upload and synchronization: Intelligent cloud control, every The pictures of the trays ordered by a device every day will be automatically displayed through the Internet. Automatically store pictures in the cloud database, engineers will These images are optimized in the background, and then the optimized materials are The disk data is updated to the database every month to improve data Count accuracy. The longer the time, the accuracy of the material tray will decrease. Higher, the accuracy is as high as 99.99%. No need to spend 3-5 days Time to enter data on the material trays in the factory, the user can directly Directly used, the accumulated points database is shared to all machines. With more data, the ordering is more reliable and accurate.	Use manual calculation methods: You need to first calculate the product according to the packaging. The list lists the calculations one by one. When multiple products are to be calculated, the middle When nesting semi-finished products, it will be a very cumbersome task and very. It is difficult to achieve accurate and timely accounting, and also need to check the latest inventory. Only then can the inventory report be obtained.	
Ассигасу	The accuracy is even higher: (1) Using X-ray imaging technology, Detect production materials and obtain image information, Rapid calculation through the image algorithm independently developed by Ruimao Optics number, the actual quantity of the material can be obtained, and the material can be The number of materials is classified and counted according to categories, and the equipment data information is Information docking with customer MES/ERP system, real-time data interaction, Greatly reduces the probability of inventory errors and ensures accurate The data. (2) X-ray dispensing machine is easy to operate Easy to understand, more convenient, and the ordered products are neat and orderly, and X-ray counting machine automatically points materials with high precision and zero error. You can work 24 hours a day without taking a break during work.	Information is prone to errors: (1) When the workload is heavy, Manual input often results in transcription and typing errors, missing memory problems, resulting in a lot of ineffective work and duplication of work, resulting in Inaccurate electronic component inventory information makes companies bear additional costs of inventory. (2) Manual ordering of ingredients is sometimes done in a hurry, Not placing materials in an orderly manner.	

Test parameters of	5 people per class	Time per tray	Total number per class
traditional dispensing machine		80s	1800 plates
INLINE XC-3100	0 people	158	4800 plates