NEO COUNTER

NEO COUNTER quickly provides accurate inventory information and component quantity to you. It greatly saves labor and inventory processing time for you. To know the accurate quantity used to be time consuming and labor intensive with traditional photoelectric technology-based counter. NEO COUNTER changes the way of component counting with the latest X-Ray imaging technology and inventory information can be updated in seconds.

X400 Offline Counter

It adopts semi-automatic working mode, in which manual material ID scanning, material loading, material unloading and labeling are required.

- Manual material loading/unloading
- Up to 01005
- AI based object detection technology
- Barcode printing template customization
- Connectivity: API interface to communicate with MES/WMS/ERP
- Up to 4 reels counting
- AutoMAT technology

Working flow: Scan material ID → Load materials → AutoMat → Output results → Print labels → Unload materials

X800 Inline Counter

It adopts automatic working mode, in which you can have automatic material loading, scanning, counting and material unloading, even work with AGV. It greatly improves inventory management efficiency.

Working flow: AGV transport → Batch storage → Material ID recognition → Material detection → AutoMat → Label printing → Batch retrieval → AGV transport

- Inline counter
- Batch storage
- Auto material docking: AGV based on SLAM technology recommended
- Auto material ID recognition: material classification and LCR classification
- AutoMat Technology: 01005
- Auto label printing: printing location identification
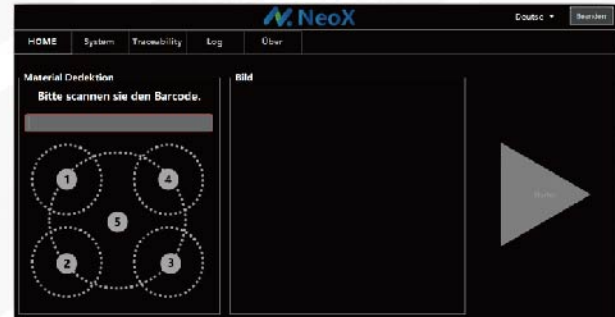- Batch retrieval: auto material distribution, AGV docking

AutoMAT: Automated Material Match Technology

- Based on ANNs (Artificial Neutral Networks)
- Multi objects detection
- No component templates
- Auto material location detection
- Object character recognition

NeoX

With NeoX software deployed by NEO COUNTER. It not only helps you on quantity counting, but also integrates other functions, including UID generation, traceability, material ID recognition, OCR character recognition, etc.In Smart Manufacturing, Industry 4.0 environment, the NeoX system supports a variety of system connection modes to facilitate data synchronization with your main system.

- New generation electronic material system
- Multi language: Chinese, traditional Chinese, Japanese, German, English
- AutoMAT Technology: rapid identification and counting and autonomous learning system
- ID template
- Label template
- Traceability
- Connectivity

	X400 Offline Counter	X800 Inline Counter
X-Ray Source		
Type	Close Tube	Close Tube
Voltage	30~80kV	30~80kV
Current	0.2~0.7mA	0.2~0.7mA
Size	30~40µm	30~40µm
Detection Panel		
Type	Digital	Digital
FOV	427mm×427mm	427mm×427mm
Pixel	154µm	154µm
Resolution	2816×2816	2816×2816
Component		Reel/Tray/bulk material
Type	Reel/Tray/bulk material	
Max Thickness	85mm	85mm
Min. Size	01005	01005
Cycle Time	8-10s	8-10s
Accuracy	>99.9%	>99.9%
Machine		
Dimension	1000×1300×1920mm	950×900×2100mm
Weight	550kg	420kg
Power Supply	AC220V, 50/60Hz	AC220V, 50/60Hz
Working Power	1.5kW	2kW
Controller	Industrial computer	Industrial computer
Screen	15.6-inch HDMI monitor	15.6-inch HDMI monitor
Safety		
Radiation Leakage	<1uSv	<1uSv
Anti-pinch Raster Sensor	Yes	No
Emergency Stop	Yes	Yes
Function		
Material ID Scanning	Barcode scanning gun	Visual recognition
Scanning Station	Yes	No
Loading	Manual	Auto
Unloading	Manual	Auto
Label printing	Auto	Auto
Connectivity		
Webservice	Yes	Yes
HTTP	Yes	Yes
Socket	Yes	Yes
API Documentation	Yes	Yes

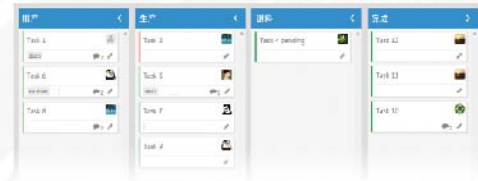neotel technology

SMF: WES Warehouse Execution System

WES (Warehouse Execution System) is a hybrid system that combines specific WMS functionality and Warehouse Control System (WCS) functionality for automated materials management .

SMF, WES developed by Neotel, is focused on executing tasks based on existing facility production and storage condition. Driven by the system SMD BOX becomes more flexible and agile in response.

BOM

With the efficient material management, users can track real time purchase status and changes of raw material. Consequently, it can ensure raw materials arriving on time, realize cost control, and finally prompt companies to promote efficiency and reduce costs.

Work Order

Work Order based material delivery, user can generate work order from SMF or triggered by own MES/ERP. With work order system will check material availability and send alarm message to users by emails.

Real Time Inventory

Material information stored in Cloud/Server can help user know well of real-time inventory information and save time on periodic inventory. It's time to say Goodbye to traditional stock! The real-time inventory capability makes "Work In Process Inventory" a reality. The modular design of the hardware ensures user adjusting on-site material management based on capacity at any time.