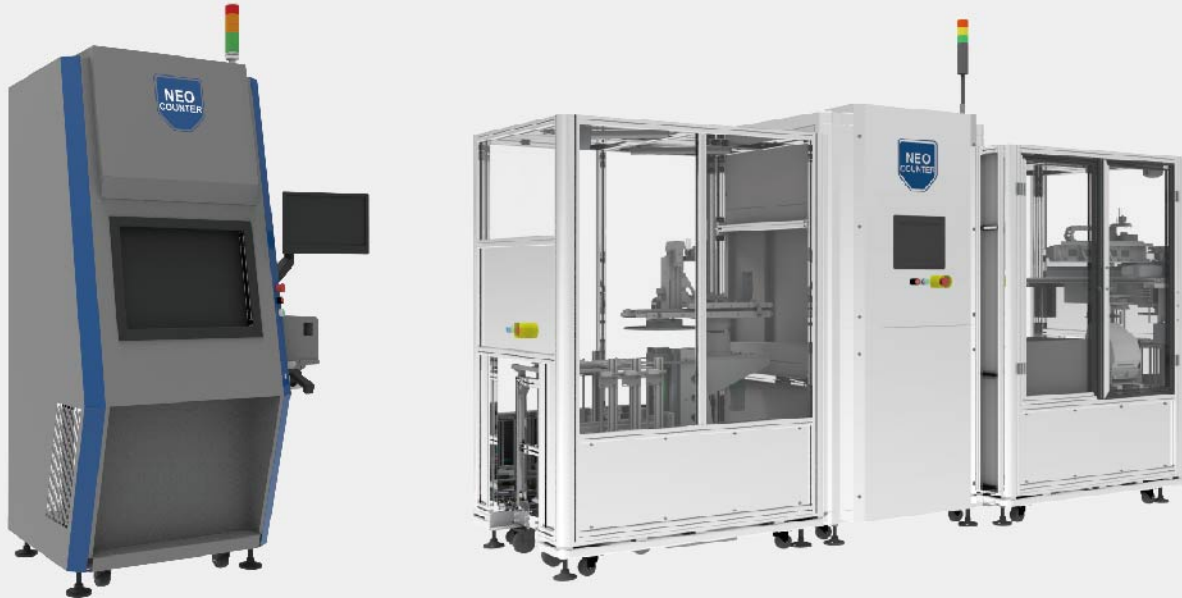**X400 Offline Counter / X800 Inline Counter**

Neo Counter

NeoX: Neotel Xray Counting Software

NEO COUNTER

NEO COUNTER

Neo Counter offers a more efficient inventory management solution than traditional photoelectric technology-based counters. It provides quick and accurate information on component quantity, reducing labour and processing time.

AutoMAT: Automated Material Match Technology

Based on ANNs (Artificial Neutral Networks)
Auto material loading area detection
Multi objects detection
Component character recognition

X400 OFFLINE COUNTER

The Neo Counter X400 is an offline x-ray component counter that uses AI technology for material detection and barcode recognition. The system generates labels for the counted components and can produce these labels automatically.

FEATURES

Manual material loading/unloading
Capacity to count up to 4 reels
Ability to count components as small as 01005
AutoMAT technology
AI-based object detection technology
Customizable barcode printing templates
API interface for communication with MES/WMS/ERP systems.

WORKING FLOW

Scan the material ID→Load the materials→
Perform the counting→Output the counting results→
Unload the materials→Print the labels

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X800 INLINE XRAY COMPONENT COUNTER

X800 inline version of the Neo Counter automates the material counting process from receiving to extraction, with the ability to print labels and place them on the material. It can work with trolleys or AGVs (Automated Guided Vehicles).

FEATURES

Batch material receiving and supplying
AGV compatibility
The automatic material ID recognition
Material sortation
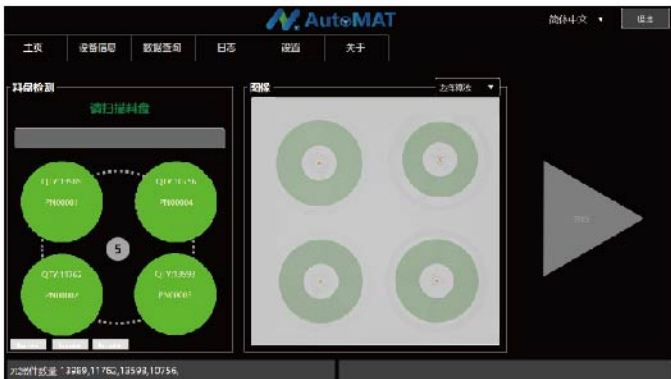Ability to count small components (as small as 01005)
Label printing capability

WORKING FLOW

Batch material receiving→Material ID recognition→
Material detection→Counting→Sortation→
Label prints and placement→Mater Extraction

NEOX: Neotel Xray Counting Software

NeoX software integrated with the x800 inline version of the Neo Counter provides not only quantity but also includes other functions such as:
UID (Unique Identification) generation
Traceability
Material ID recognition
OCR (Optical Character Recognition)

The X-ray component counter ensures accurate counting; software updates inventory information to track the inventory level. This information is used for the efficient reordering of components.

In an Industry 4.0 environment, the NeoX system supports various system connection modes to facilitate data synchronisation with ERP/MES system, supporting the integration and automation of your material handling process.

TRACEABILITY

High data grain level material is achieved with the help of a traceability module in SMF software. Component Reel ID, the counting information could be stored in the database for future verification.

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TECHNICAL SPECIFICATION

	X400	X800
Machine Type	Offline	Inline
Capacity	Up to 4 reels	20 reels
Xray Source	Close Tube, Micro focal spot	Close Tube, Micro focal spot
Xray Voltage	50kV	50kV
FOV	427mm×427mm	427mm×427mm
Max Thickness	85mm	85mm
Min. Component Size	01005	01005
Cycle Time	8-10s	8-10s
Accuracy	>99.9%	>99.9%
Controller	Industrial computer	Industrial computer
Touch Panel	Yes	Yes
Material ID	Embedded vision system	Embedded vision system
Loader	Manual	Auto
Unloader	Manual	Auto
AGV	No	Yes
Label printing	Auto	Auto
Connectivity	Yes	Yes
Dimension	900×980×1950mm	3600*1170*2100mm
Dimension (with signal light)	900×980×2430mm	3600*1170*2550mm
Weight	550kg	1485kg
Power Supply	AC200-240V	AC200-240V
Working Power	1.0KVA	2.5KVA
Radiation Leakage	<1uSv	<1uSv

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