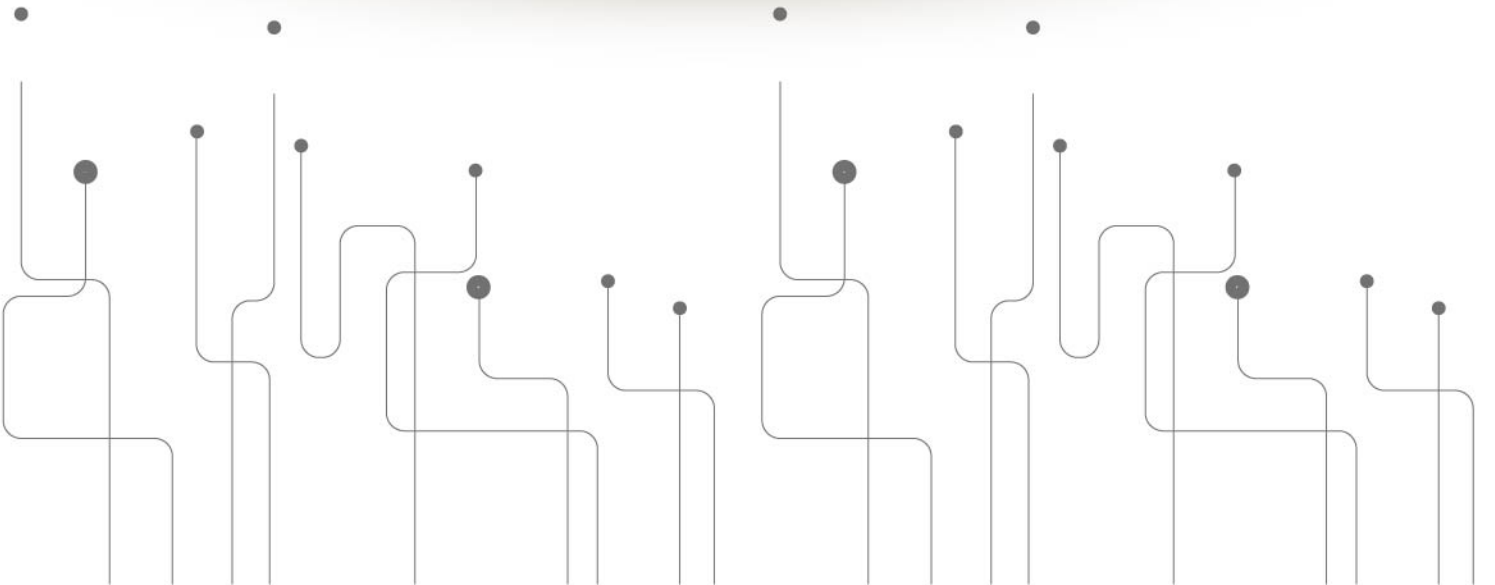
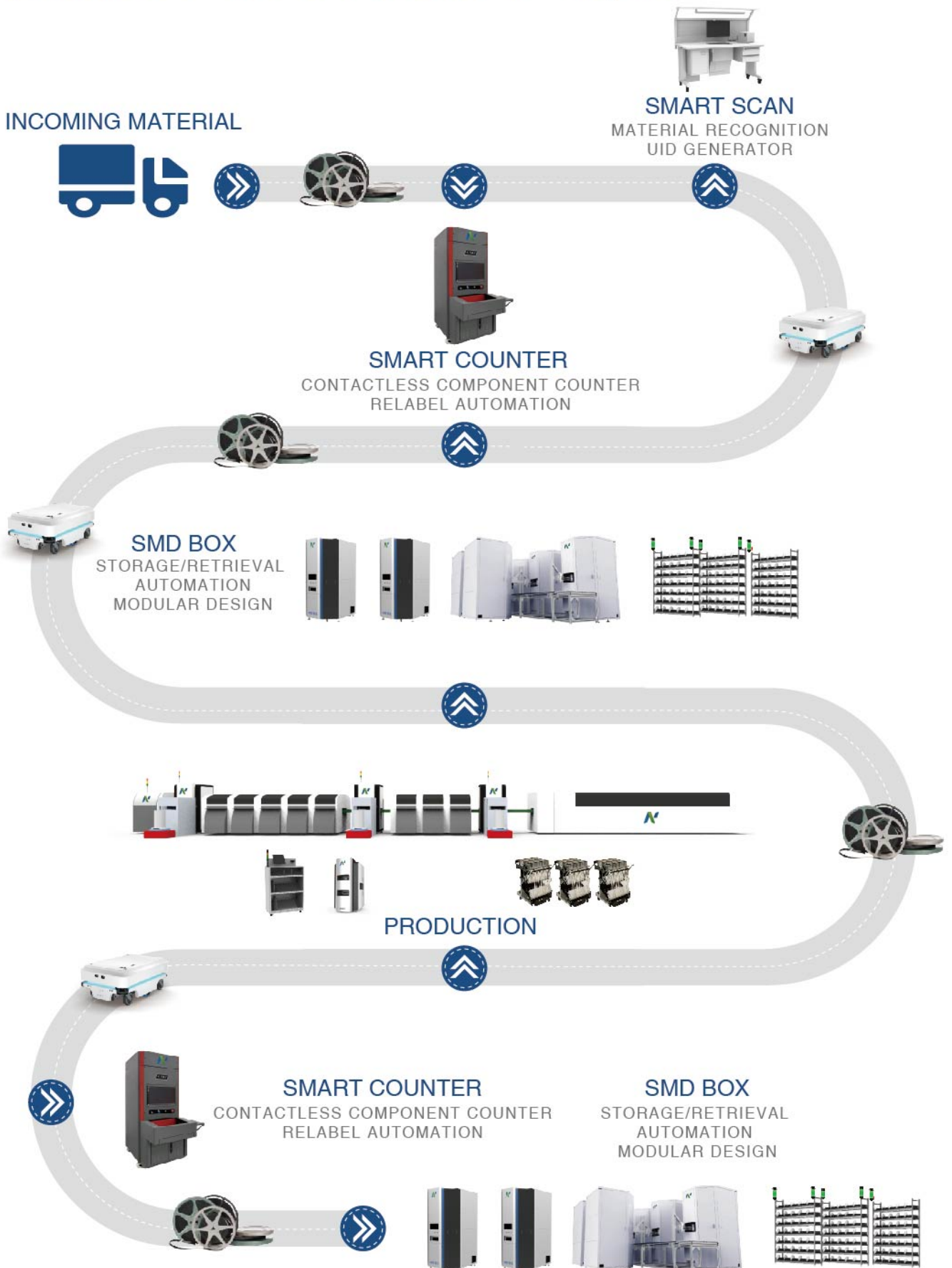




SMART MATERIALS FLOW



SMART MATERIAL FLOW





► SMD BOX

Innovated solution of automated material storage and retrieval system. SMD BOX is designed to minimize and mobilize, digitalize your material stock. We secure inventory, increase productivity and accuracy. The whole system is also driven by NeoS and it build link between production and material flow.

► SMD BOX SISO: Single Input & Single Output

SMD BOX HYBRID provide unprecedented flexibility for material management. It is capable to store vary materials with different size, weight, etc. Material like solder paste, PCB, feeders, product modules can be stored and retrieval in automated way. Not like vertical lift design requiring factory ceiling height the compact design of the machine occupy limited space and height.



► SMD BOX MIMO: Batch Material Processing

Neotel patented batch material processing capability, MIMO: MULTI INPUT & MULTI OUTPUT. Placing materials (up to 40 reels) in the loading area, system can identify material ID, positioning, storing without any interruption. Retrieval process can be triggered by work order from MES/ERP, multiple materials can be stored in the loading station before collection.

► SMD BOX DUO: Less Floor Area, More Capacity!

SMD BOX with 1000 reels capability sometimes still cannot meet users' requirements, then it appear to the chance of SMD BOX DUO which can work with 2500 reels. Users can configure ML module to realize the automatic material collection. Furthermore, the sealed design guarantees the temperature and humidity level of the material.

Integrate your AGV: ML Module

The patented Material Link module can help users to realize the autonomous material loading/unloading. AGV can load materials from SMD BOX directly then return the remaining materials after the production completion.

Both SMD BOX SISO and SMD BOX DUO can upgrade with the ML module.



	SMD BOX SISO	SMD BOX MIMO	SMD BOX DUO
Product	SMD BOX SISO	SMD BOX MIMO	SMD BOX DUO
Type	Offline	Offline	Offline
DCS Compatibility	Yes	No	Yes
Operation System	Windows/Linux/Mac	Windows/Linux/Mac	Windows/Linux/Mac
MSL Management			
Temperature Log	Standard	Standard	Standard
Humidity Log	Standard	Standard	Standard
Humidity Control	<5%	<5%	<5%
Material ID			
Recognition System	Vision	Vision	Vision
FOV(mm)	200*400	400*400	200*400
1D	Yes	Yes	Yes
2D	Yes	Yes	Yes
Customization	Yes	Yes	Yes
IoT			
P&P machine	Option	Option	Option
MES Communication	Option	Option	Option
AGV	Option	Option	Option
Material Type			
Tray	Yes	Yes	Yes
Reel	Yes	Yes	Yes
Storage & Retrieval			
Material Load	Manual	Manual	Manual
Batch Material Process	No	Yes	Yes
Storage & Retrieval Automation	No	Yes	Option
Batch Storage	No	Yes	No
Process Time(s)	8-12	8-12	8-12
Reel Type			
15 inch	Option	Option	Option
13 inch	Standard	Standard	Standard
7 inch	Standard	Standard	Standard
Max Thickness	72mm	72mm	72mm
Min Thickness	8mm	8mm	8mm
Max Weight	Max.10kg	Max.10kg	Max.10kg
Max Capacity	1000	750	2500
Machine Information			
Dimension	1450x1450x2600mm	1450x1510x2650 mm	3550x2100x2000mm
Weight	750kg	850kg	2500kg
Power Supply	220V	220V	220V
Power	4kW	4kW	4kW
Max Current	10A	10A	10A
Environment	15 - 30°C	15 - 30°C	15 - 30°C
Humidity	10 - 60%	10 - 60%	10 - 60%
Noise Level	50dB	50dB	50dB
Compressed air	6-10bar	6-10bar	6-10bar
Dehumidification System	Option	Option	Option
Nitrogen Generator	Option	Option	Option