Introduce of Intelligent SMT Reel Storage
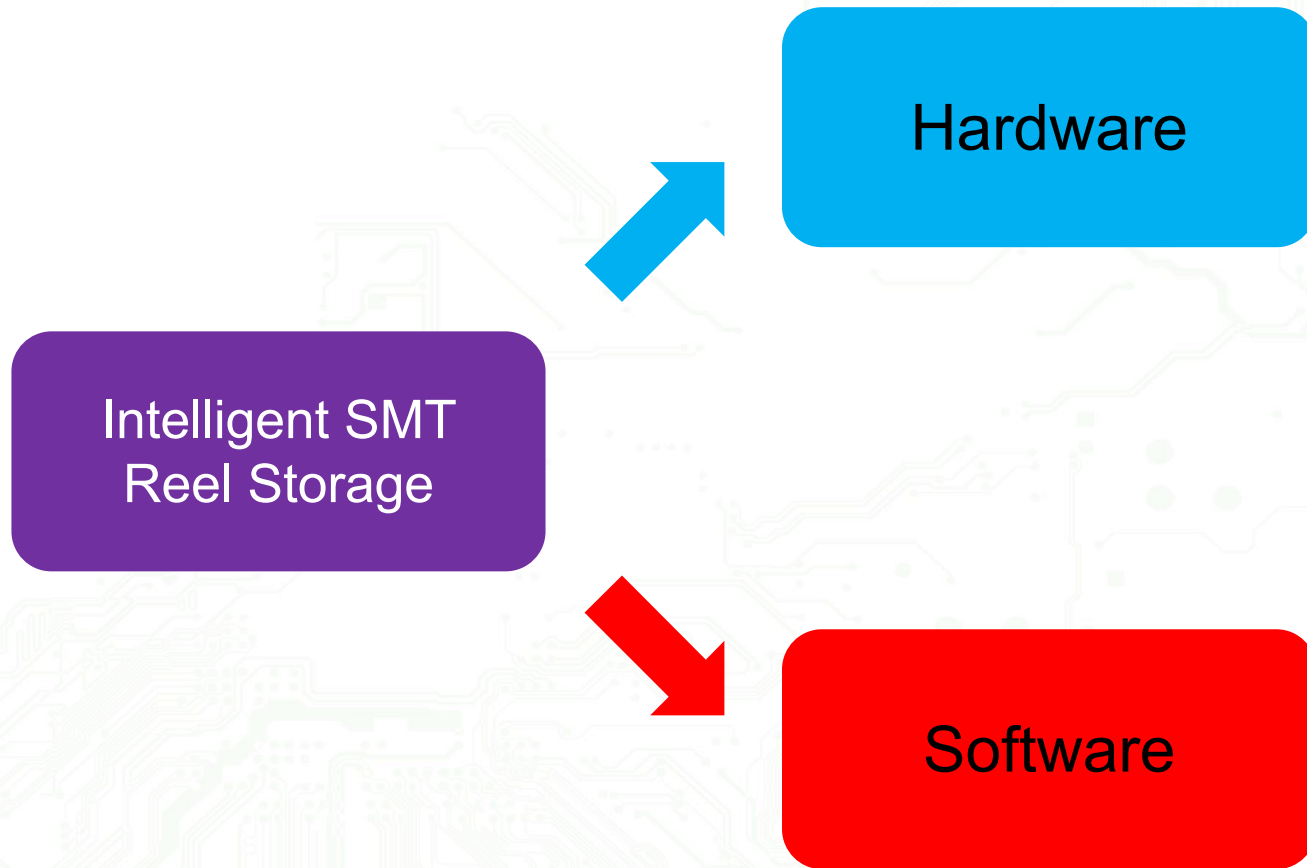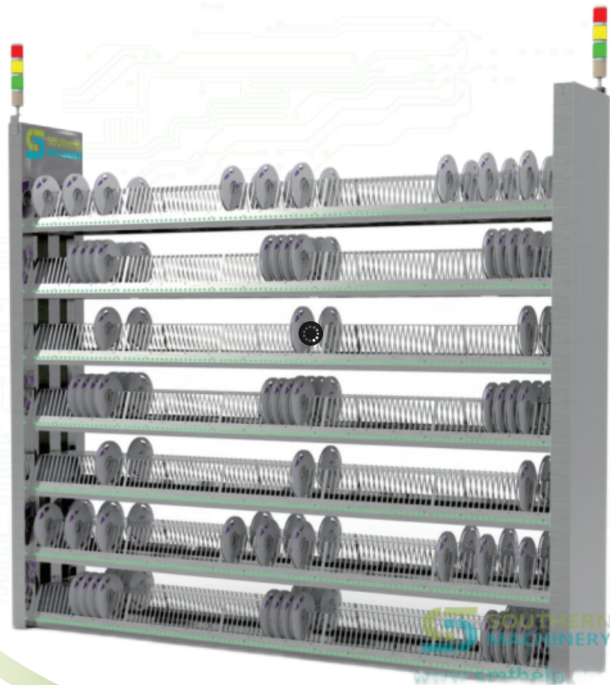
SOUTHERN MACHINERY

Hardware

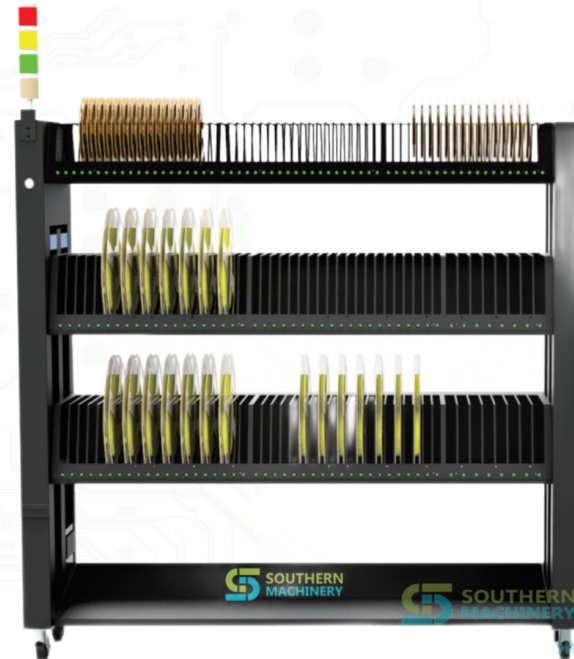Intelligent SMT Reel Storage

Software

Hardware

SIS7000A

- Suitable for 7inch reels, double-sided
- Slot width：16mm
- Size: 2280mm*400mm*1950mm
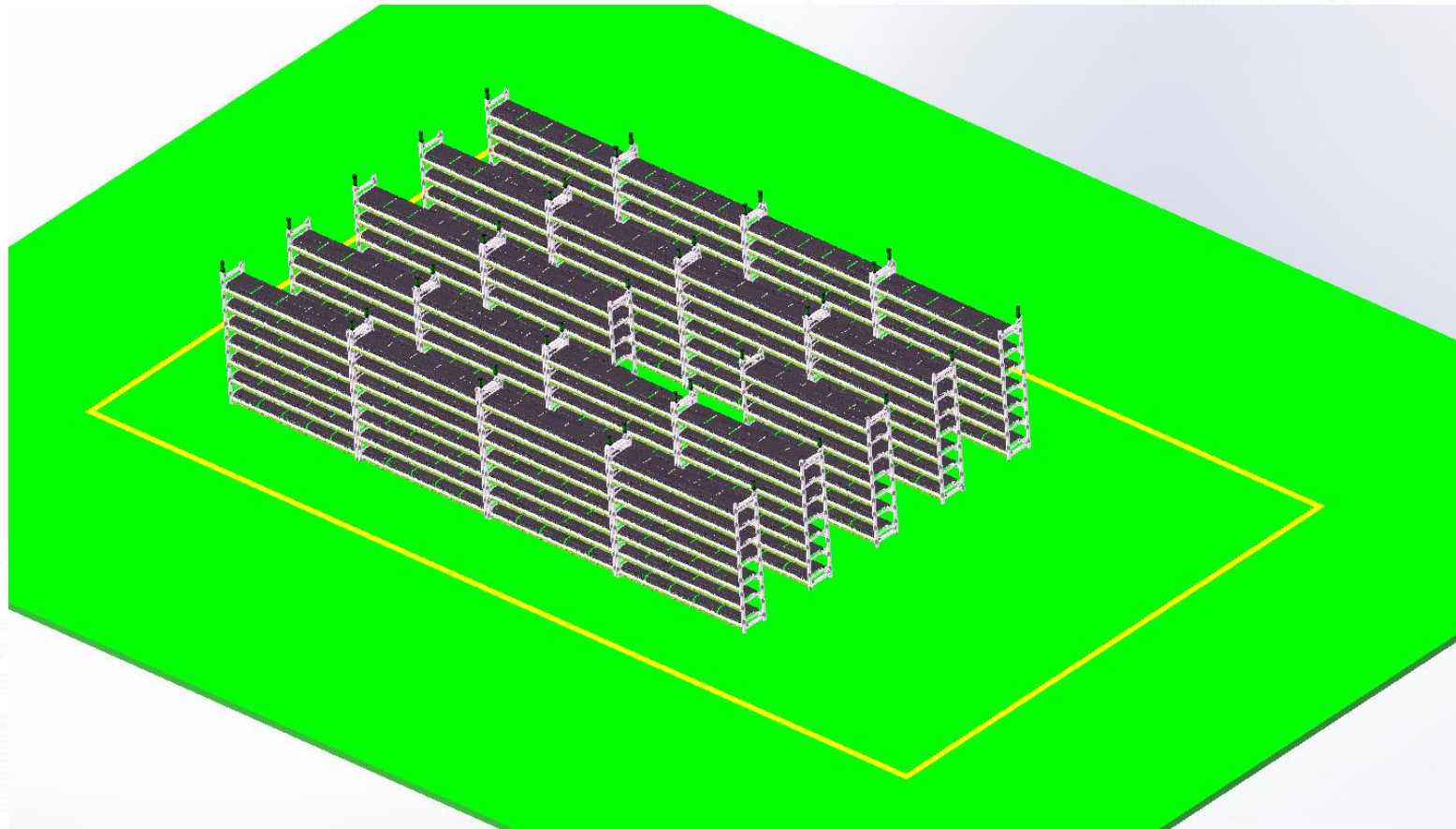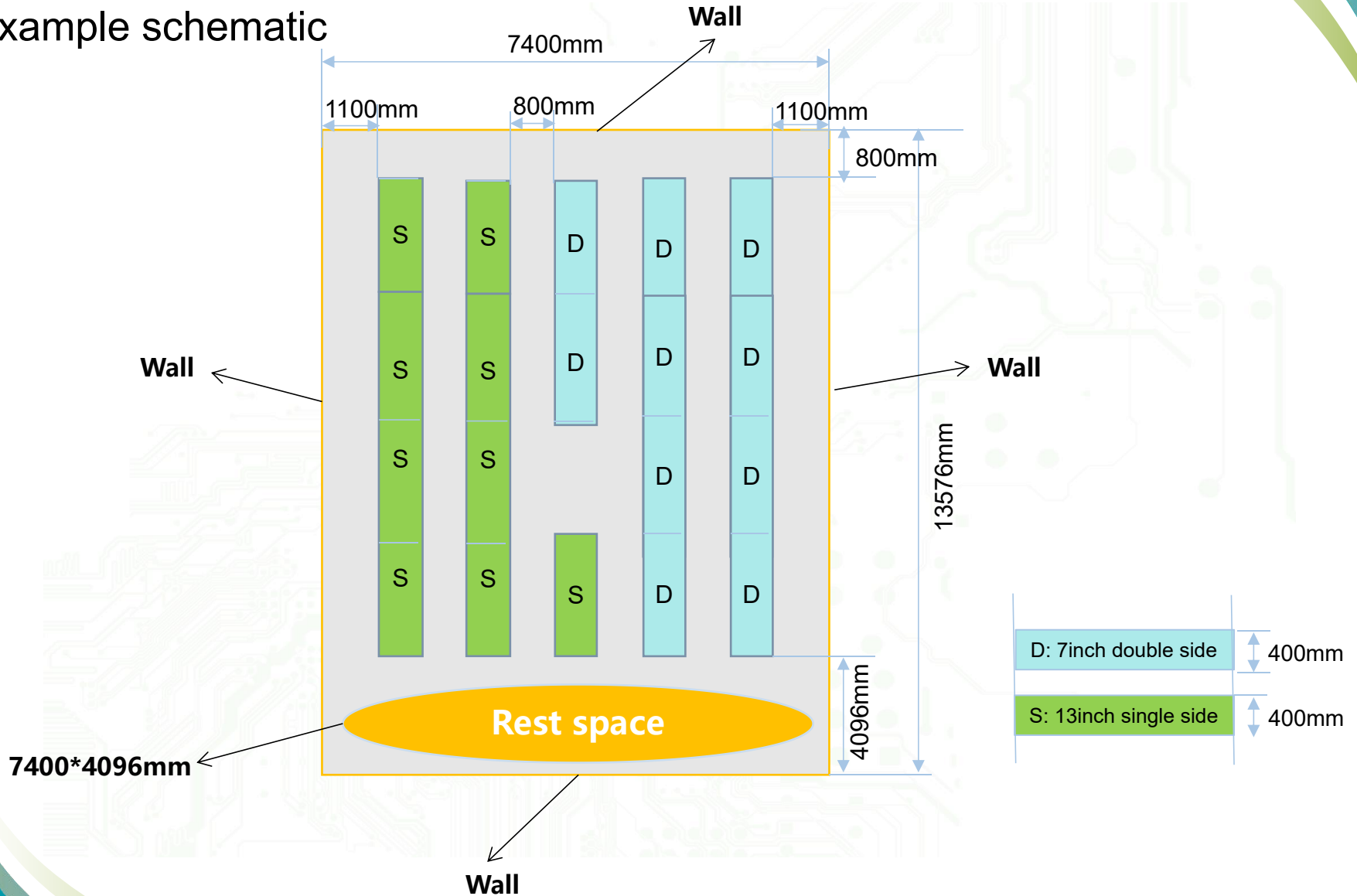- Storage：7*100*2=1400 SLOT

SIS4000A

- Suitable for 7inch(double-sided) &13inch reels(single-sided)
- Slot width：16mm&37mm
- Size: 1500mm*400mm*1510mm
- Storage：3*2*60=360 SLOT(7inch)
  1*30=30 SLOT(13inch)
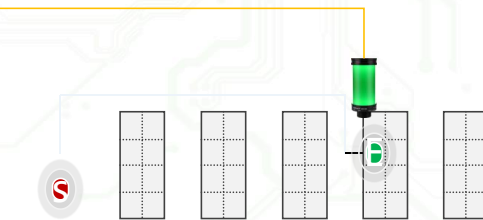
Example

Software

(1) . PDA starts material preparation task

(2) . Enter the reel rack lit by the tower light

(3) . Take out the SMT components from the warehouse location

Intelligent SMT Reel Storage
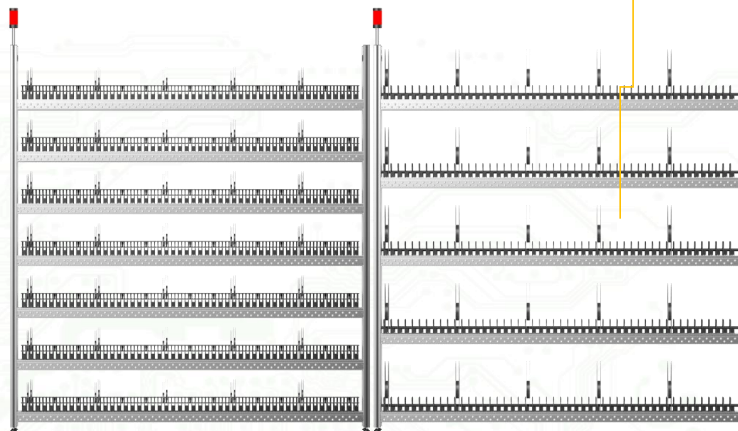
Reels preparation flow chart

Get the storage order

↓

PDA starts to go on shelves

↓

PDA scanning shelf code

↓

PDA scans the first Reel ID

↓

Scan location code

↓

Location light is on

↓

Scan new reels → Adjacent empty warehouse lights on → lights on shelves → All on shelves

NO (loops back to Scan new reels)

All on shelves — **YES** →

PDA click to finish

↑

Listing completed

↑

warehouse update
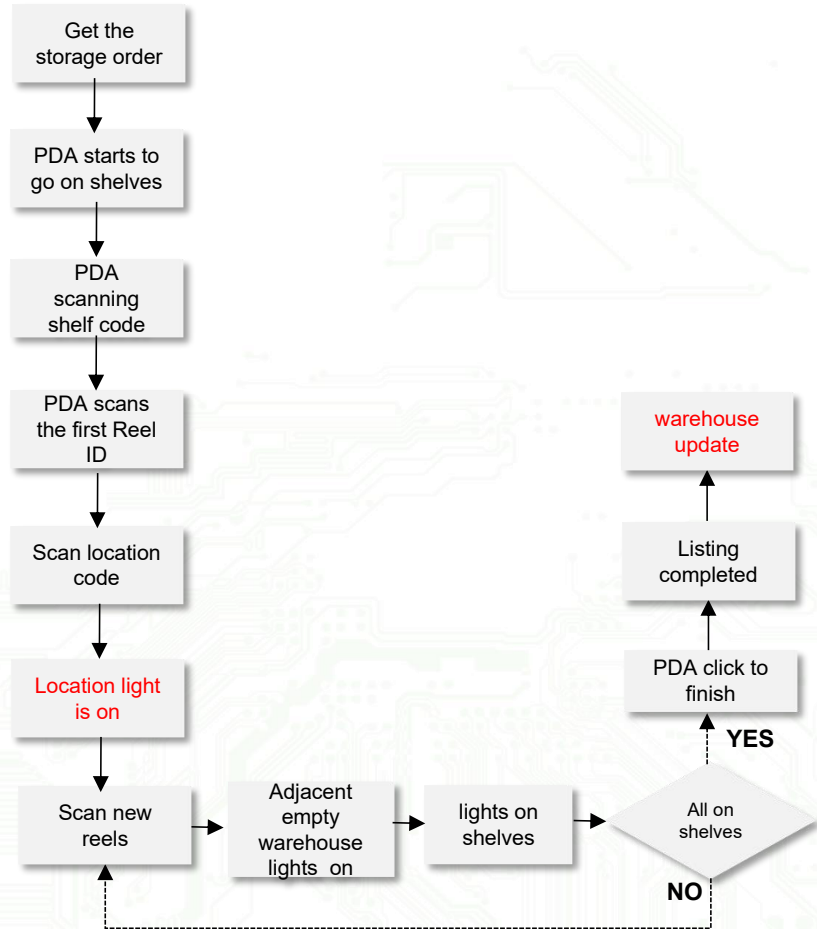
Reels preparation schematic diagram

1. Scan the barcode of the shelf

2. Scan the first Reel ID

3. Scan the barcode of the warehouse location (the scanning of the warehouse location code can be canceled, the specific process is to be determined)

4. Light up and put on shelves

5. Scan the new reel barcode

6. Repeat steps 3-5

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Reel delivery flow chart

```
Reel preparation list
      ↓
PDA starts the first set of reel preparation list
      ↓
Shelf Tower Lights Light Up
      ↓
Shelf location lighting
      ↓
pick by light  →  Stock location available  ──YES──→  preparation completed  →  shelf light off
                         │                                                              ↓
                        NO                                                    PDA starts the reel delivery task
                         ↓                                                              ↑
                   Clearance                                                    SMT loading scan
                                                                                        ↑
                                                                                inventory reduction
```
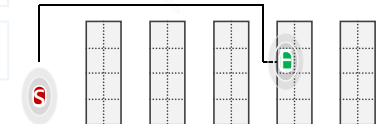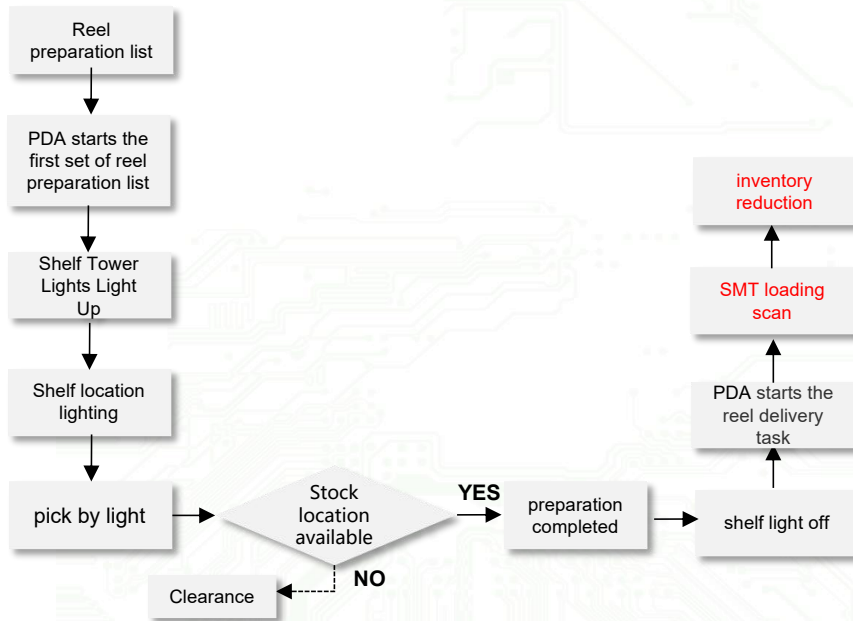
Reel delivery schematic diagram

1. PDA starts reel preparation task

2. Enter the area lit by tower lights

3. Pick the warehouse location with lights

4. PDA starts the reel delivery task

5. Scan the reel and send the it

Material returned flow chart
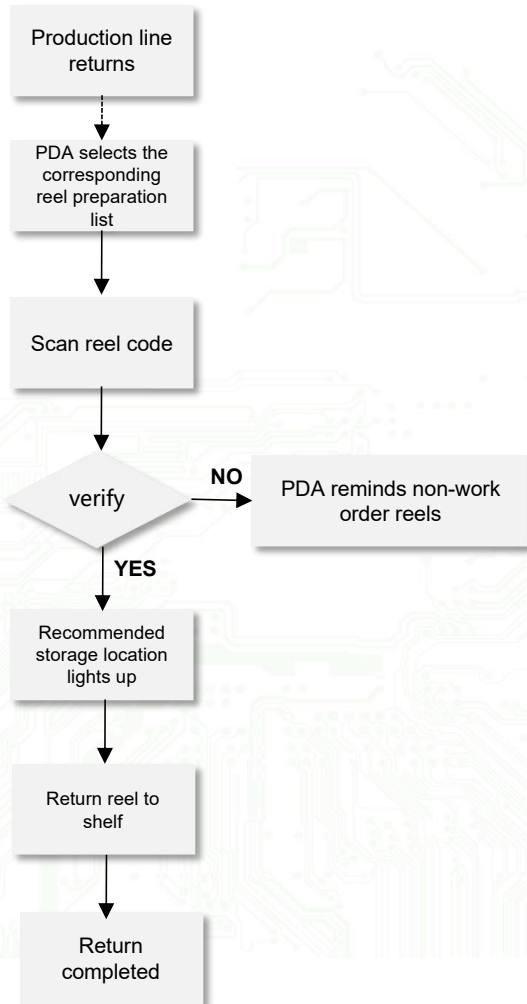
Material returned schematic diagram

Production line returns

PDA selects the corresponding reel preparation list

Scan reel code

verify —**NO**→ PDA reminds non-work order reels

YES

Recommended storage location lights up
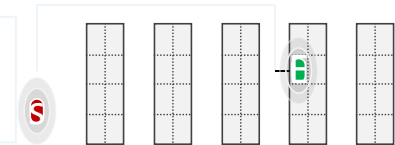
Return reel to shelf

Return completed

1. Start the return task

2. Scan the reel barcode

3. According to the light on the shelves

4.Return completed

Model: SIR5000C Intelligent Stencil Storage

1. Compact Design:

Maximizes workspace with high storage in minimal footprint.

2. MES/ERP Compatibility:

Ensures smooth integration with manufacturing systems.

3. Efficiency Boost:

Quick stencil access optimizes production speed.

4. Ample Storage:

Fits 80 steel meshes in a streamlined structure.

5. Easy Retrieval:

Designed for fast and precise mesh location.

Features	Details
Hardware	Main dimension of equipment: 1740mm x 770mm x 1800mm
Communication Port	Seamless docking with MES/ERP
Software	Improves efficiency and quickly locates steel mesh
Storage Capacity	Can store 80 steel meshes and two layers of 736mm x 736mm x 30mm steel mesh
Benefits	Reduces the area occupied, enhances operational efficiency

SOUTHERN MACHINERY

Advantage

	Storage				
Num	**Project**	**Current**	**Improved**	**Result**	**Remark**
1	Training	90days	2days	97%	97% reduction in personnel training days
2	Skill Requirements	Yes	No	100%	No personnel skill requirements, reduced by 100%
3	Impact of personnel changes	Yes	No	100%	The flow of personnel has no impact on the warehouse work
4	100 discs time-consuming	50mins	16mins	300%	Efficiency increased by 300%
5	Employees	8	3	63%	Reduce personnel by 63%

Best After-sales service

— **Worldwide Support**

— **Free Installation/ Training**

— **1 day lead-time (spare parts)**

— **1 Month customize solution**

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