

A world map is visible in the background of the top half of the slide, rendered in a light blue color against a darker blue grid pattern. The map shows the continents of North America, South America, Europe, Africa, Asia, and Australia.

Semiconductor FOUP / FOSB & Reel & Tray Automatic Packing / Unpacking System

Agenda

1 . Auto Packing

Purpose / Function / Process Flow /
Specification / Reliability

2 . Auto Unpacking

Purpose / Function / Process Flow /
Specification

3 . Auto Packing System

Purpose / Function / Process Flow

4 . Video

5 . Q&A

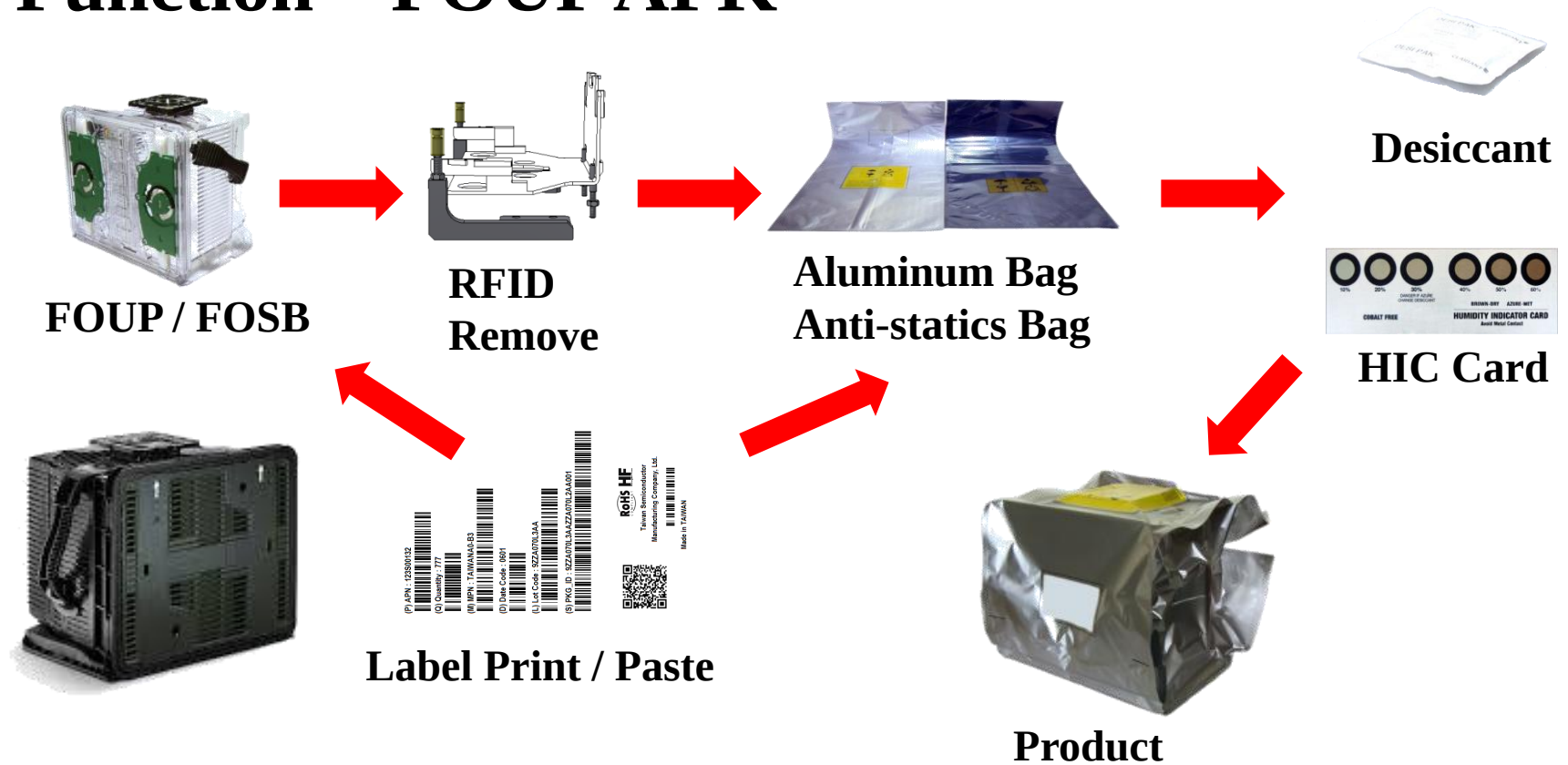
Auto Packing

1. Purpose

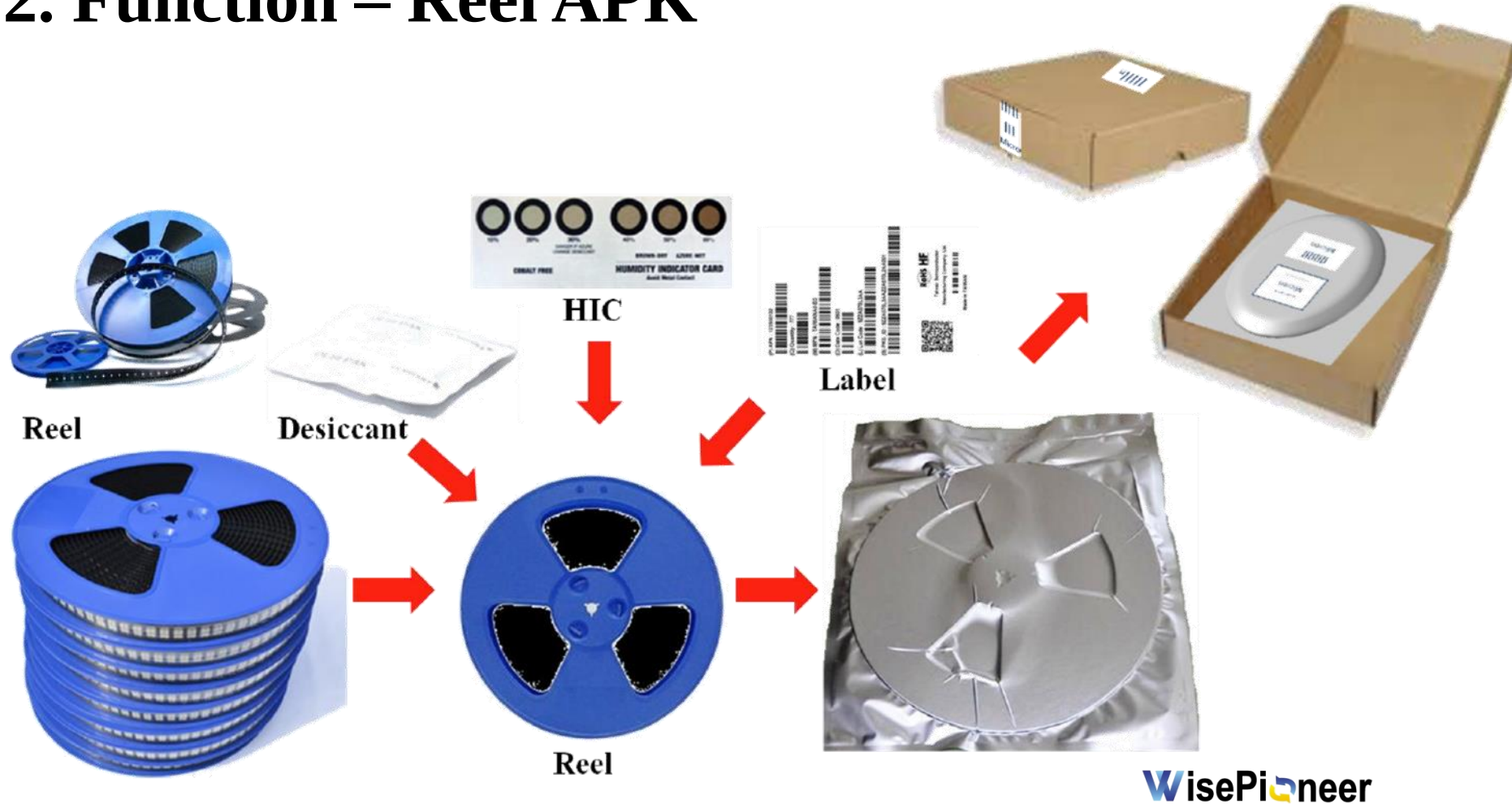
- Packing Automation
- Packing Quality Control
- Save manpower cost



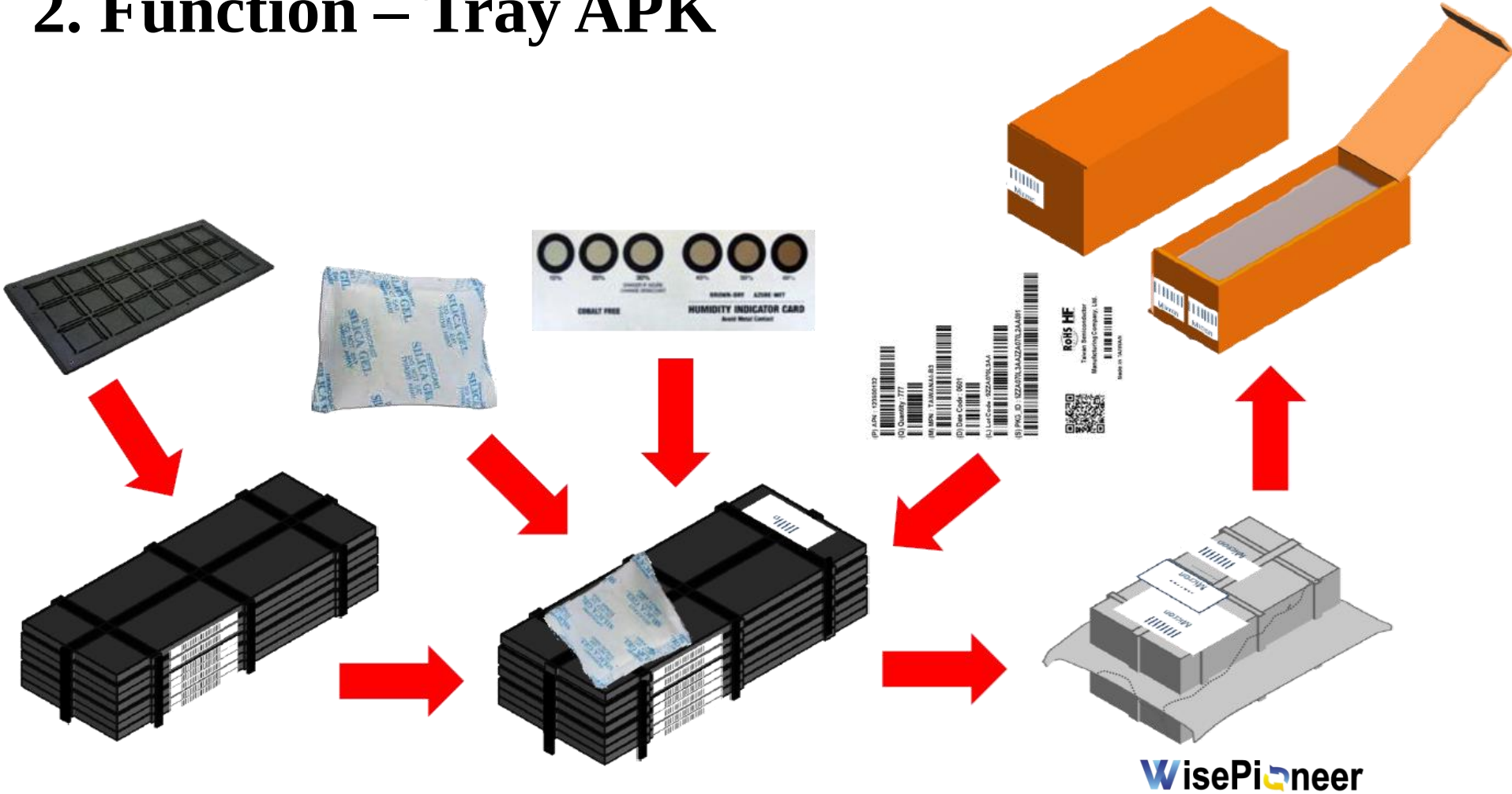
2. Function – FOUP APK



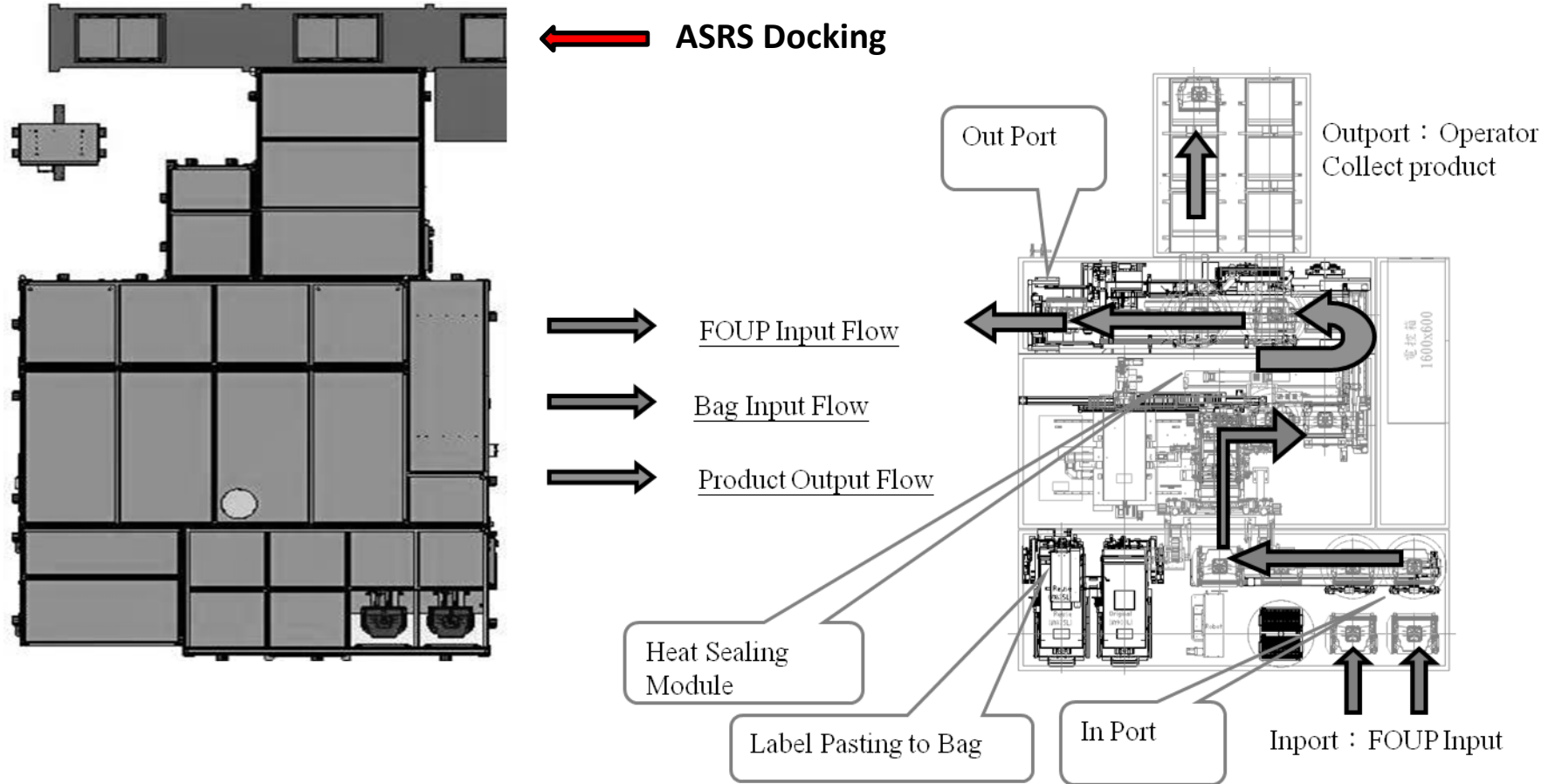
2. Function – Reel APK



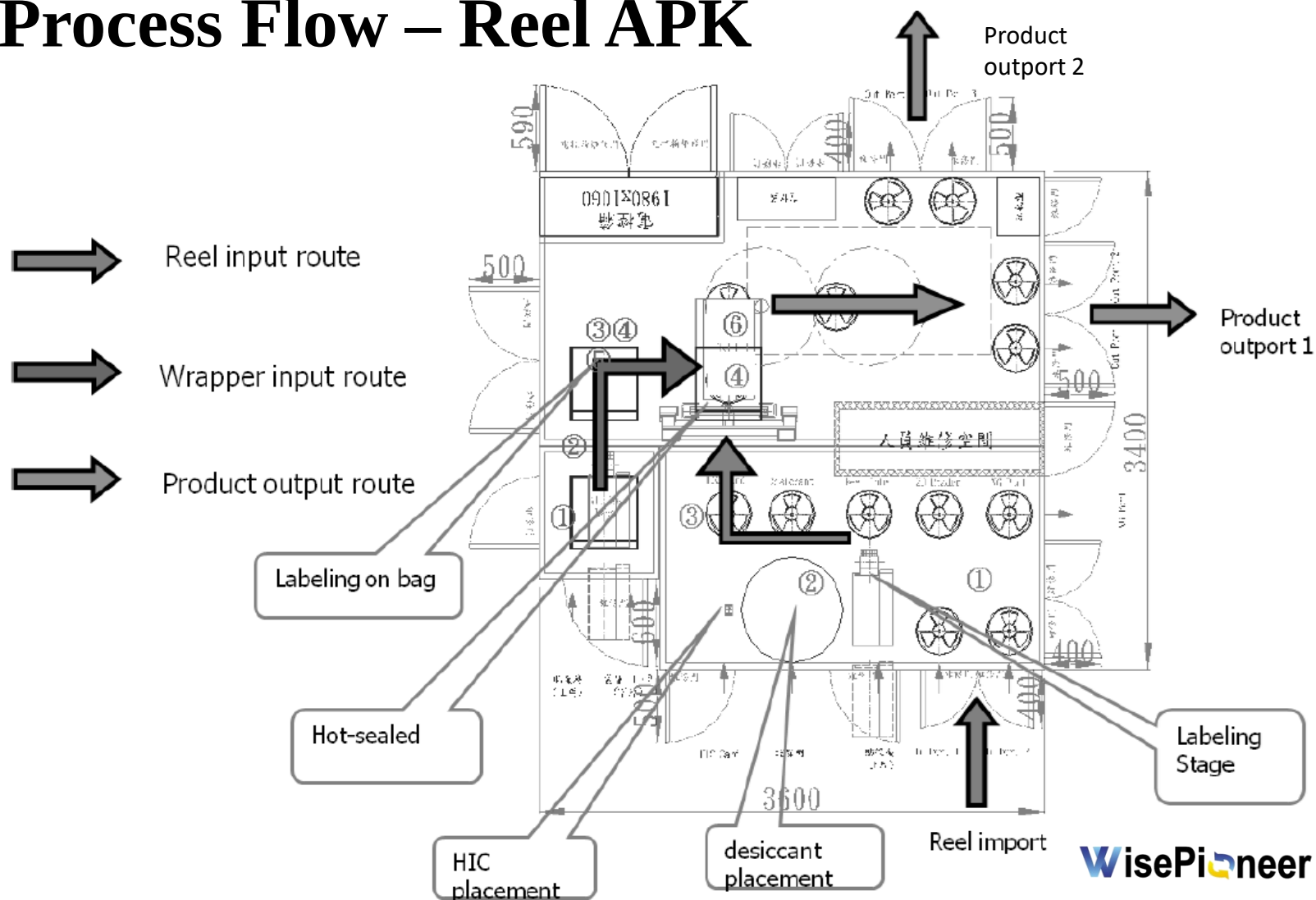
2. Function – Tray APK



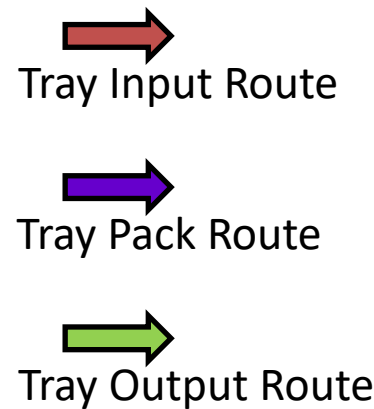
3. Process Flow – FOUP APK



3. Process Flow – Reel APK



JOHT 下貨線



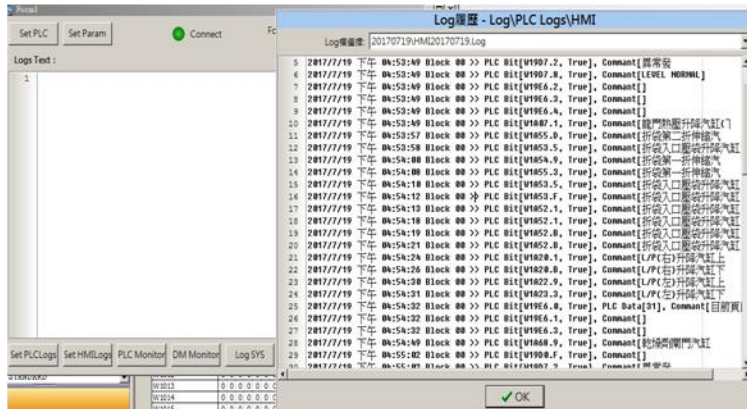
4. Specification - Software



PLC Control



Main Module



Data Log File



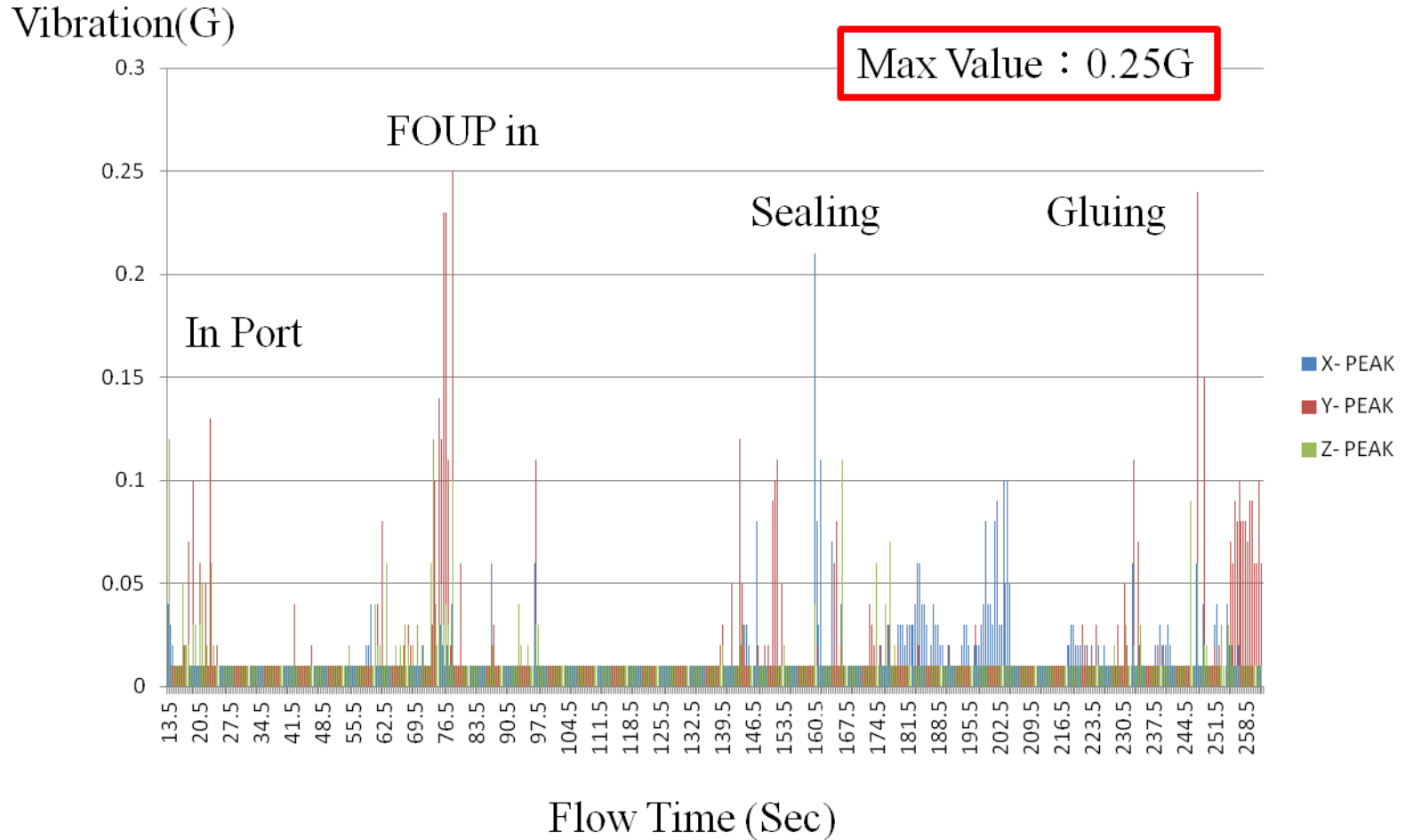
Alarm History

4. Specification – APK

Example : FOUP APK

Item	Module	Description	Remark
1	In Port	2 ports	
2	Out Port	2 ports	
3	Type	FOUP / FOSB / POD / Reel / Tray / Coin Stack (HWS)	
4	Input	OHT / ASRS Docking CV / AGV / Manual	
5	Bag	Aluminum / Antistatic	
6	Desiccant	1~2ea on FOUP (2 / 3 Units Clay) ; Total 40ea in Cassette	
7	HIC Card	1ea on FOUP ; Total 40ea in Cassette	
8	UPH	40ea	
9	Layout	4.8M(L)*3.2M(W)*2.5M(H)	

5. Vibration Test



5. Leakage Test

※Temperature & Heated time can Adjustable

Term	Sealing Temperature	Bags Type	Sealing Parameter
A	250°C (482°F) (6.8V)	Anti-static Bag	Heated time 5s
B		Aluminum Bag (Thickness 0.2mm)	Heated time 15s
C			Heated time 10s
D		Aluminum Bag (Thickness 0.5mm)	Heated time 15s
E	250°C (482°F)	Aluminum Bag (Thickness 0.5mm)	Heated time 6s
F	(20V)	Anti-static Bag	Heated time 6s

Testing Results: No leakage for 320 hours

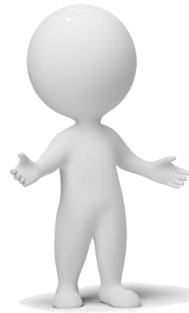


Testing the Bag Tail within Red water

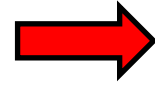
Auto Unpacking

1. Purpose

- Unpacking Automation
- Unpacking Quality Control
- Save manpower cost

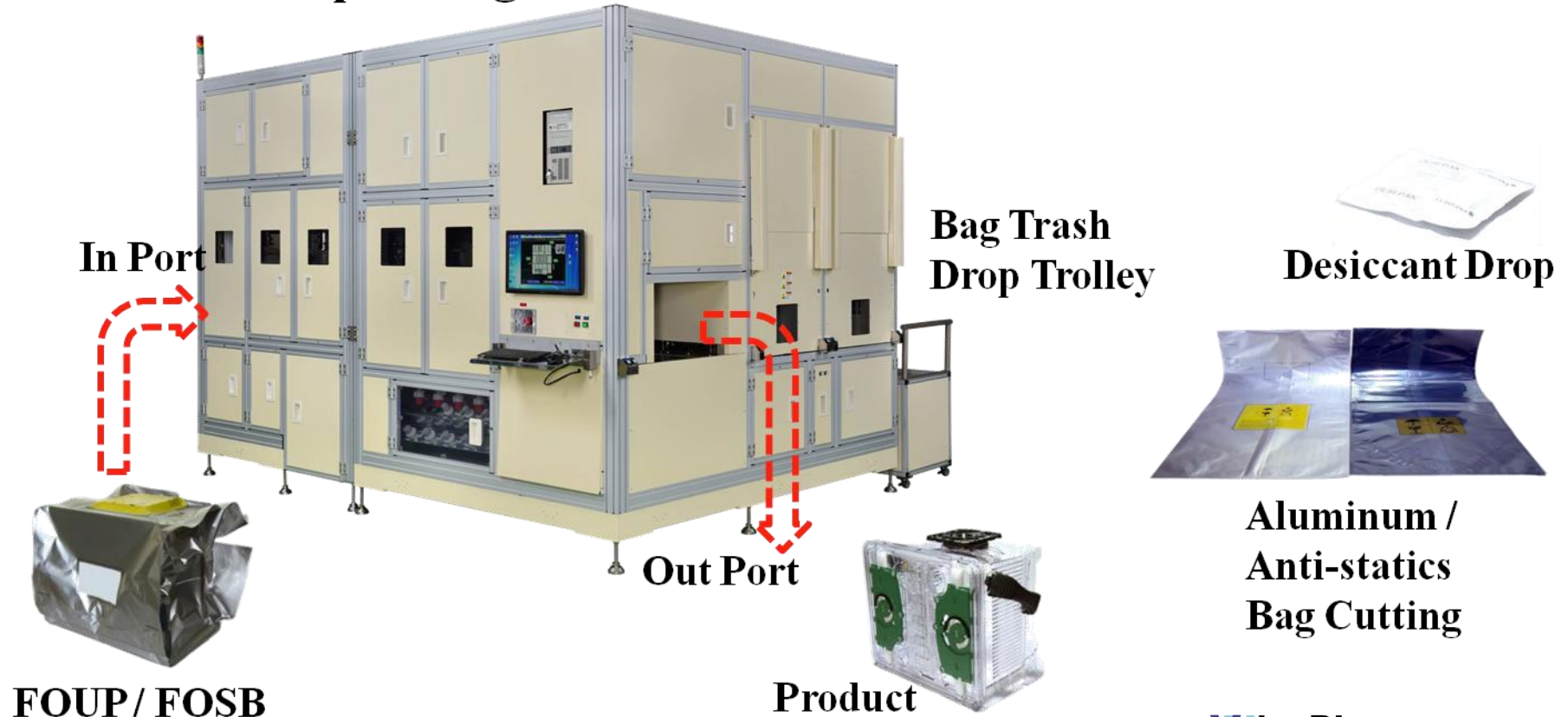


Change Job

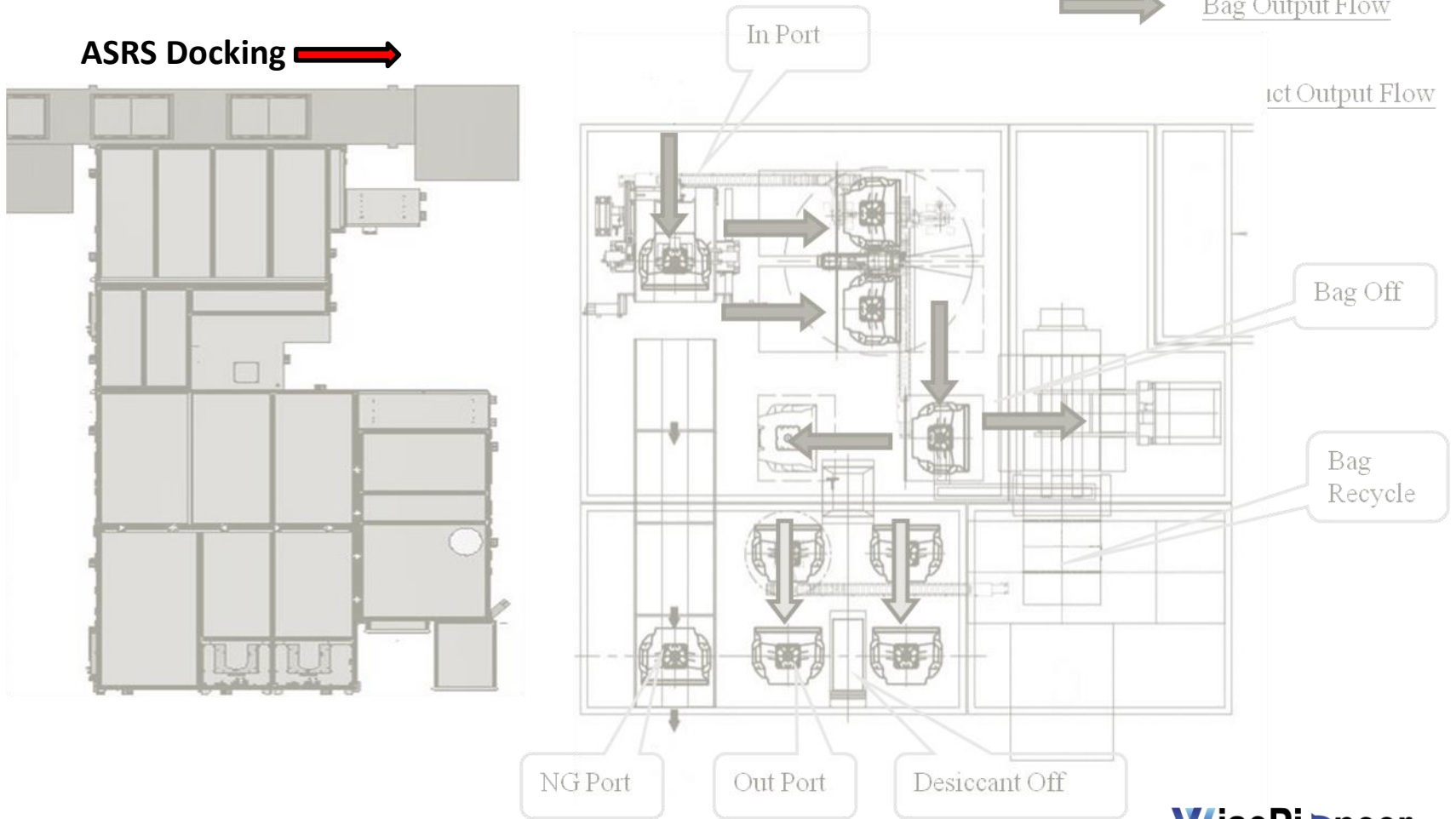


2. Function – FOUP UPK

Auto Unpacking



3. Process Flow - UPK



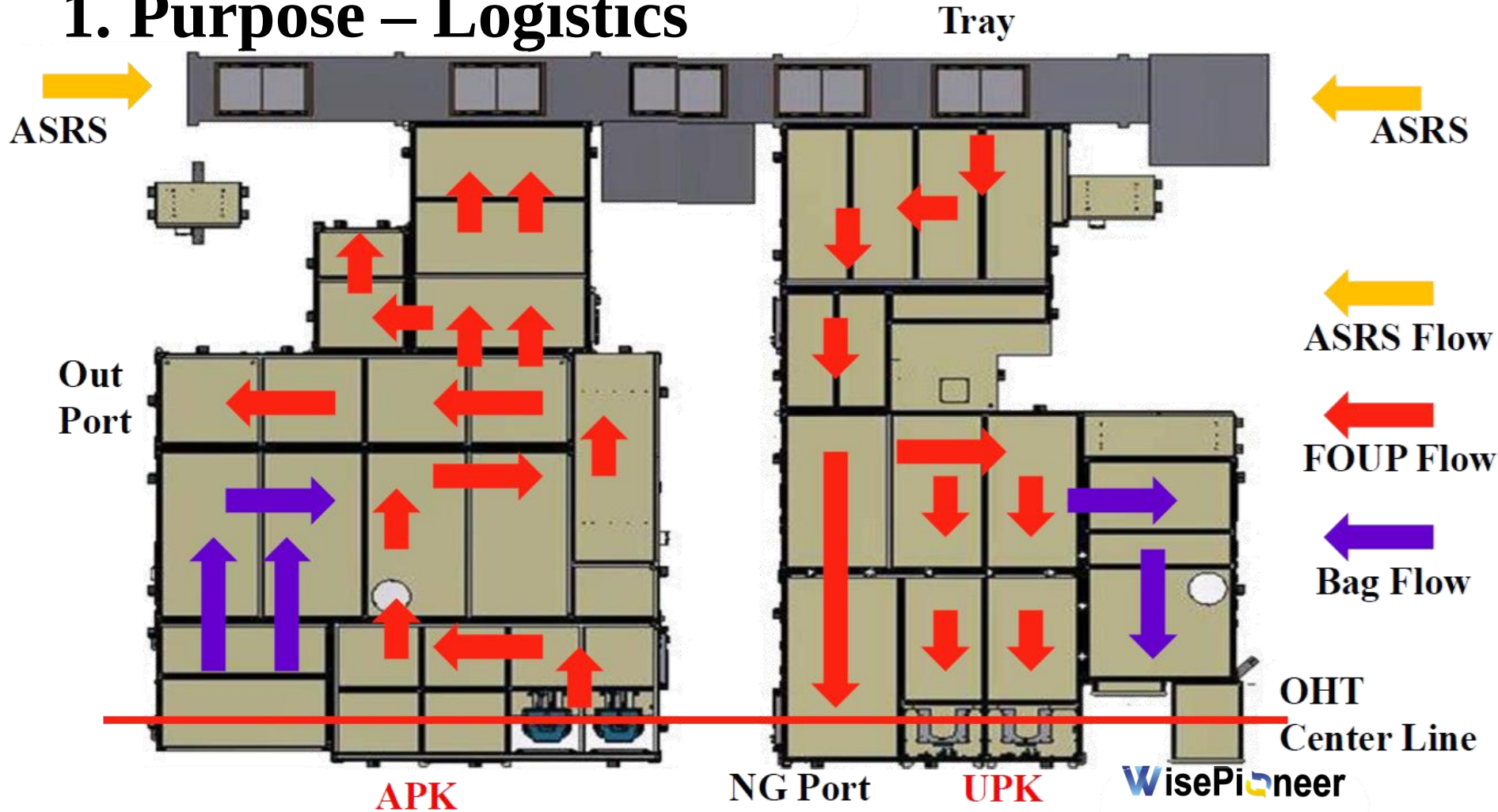
4. Specification - UPK

Example : FOUP UPK

Item	Module	Description	Remark
1	In Port	1 port	
2	Out Port	2 ports + 1 NG port	
3	Type	FOUP / FOSB / Reel / Tray / Coin Stack (HWS)	
4	Input	OHT / AGV / ASRS Docking CV / Manual	
5	Bag	Aluminum / Antistatic	
6	Desiccant	1~2ea on FOUP (2 / 3 Units Clay) ; Total 40ea in Cassette	
7	Cutter	FOUP : KC-Pin Side single layer, Door Side double layer ; Others on seal	
8	Recycle	Desiccant ; Option for HIC	
9	UPH	40ea	
10	Layout	5M(L)*5M(W)*3M(H)	

Auto Packing System

1. Purpose – Logistics



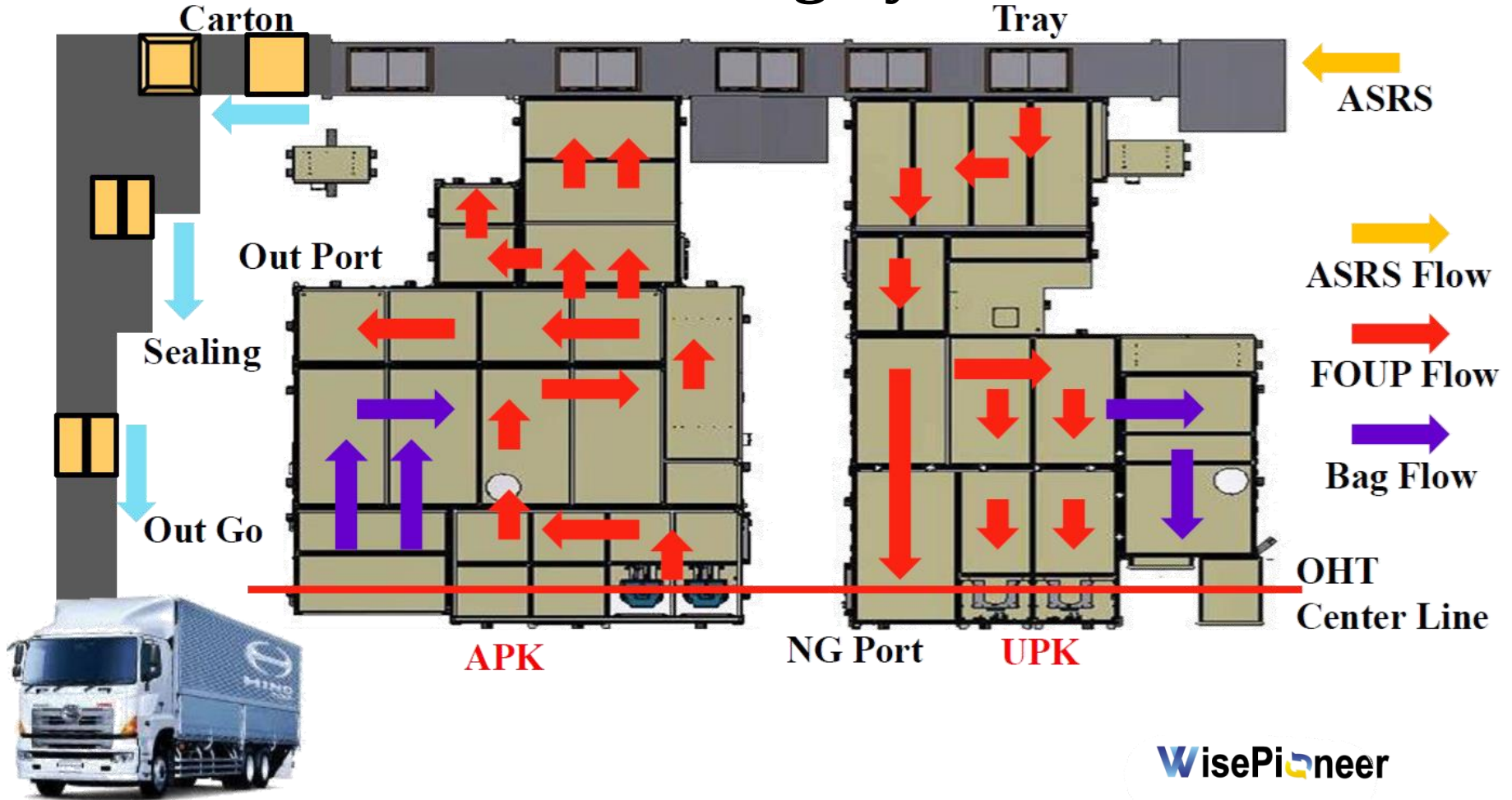
Auto Packing System

2. Function – Carton APK



Auto Packing System

3. Process Flow – Packing System



THE END

Thank you for your attention