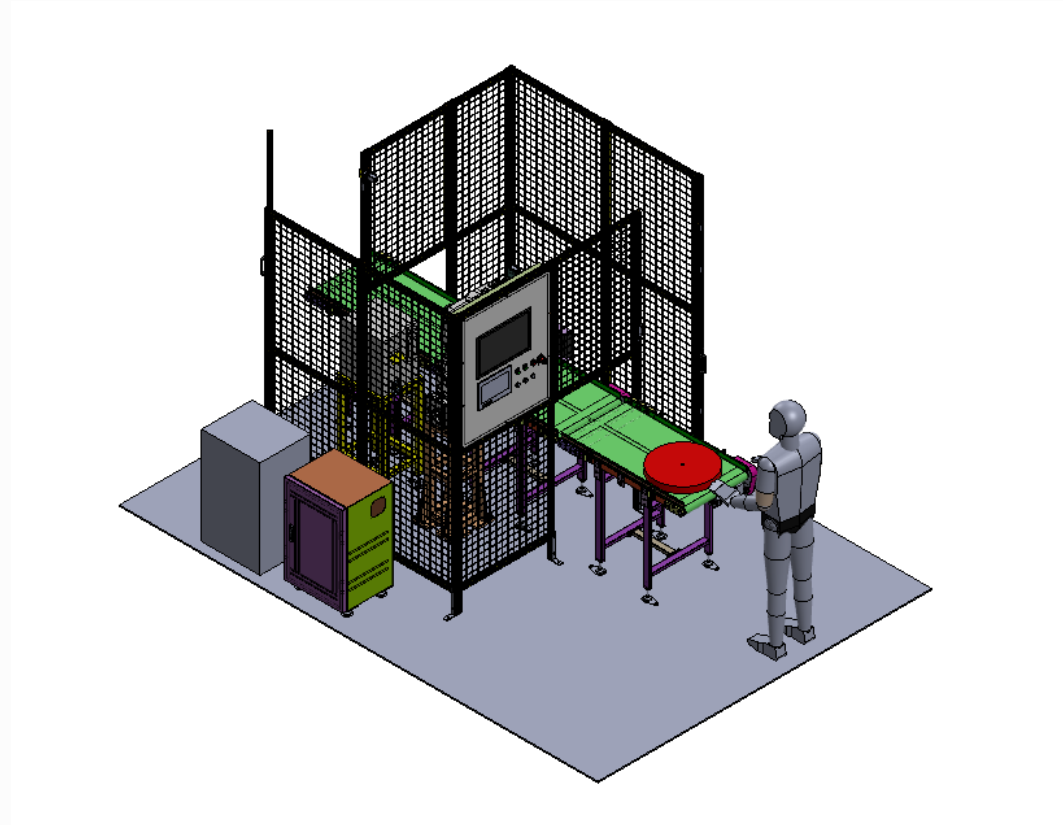# Auto labeling machine
Made for PANASONIC AUTOMOTIVE SYSTEMS ASIA PACIFIC CO.,LTD.

TOMAS TECH CO., LTD.

Make by Nattapol (IoT Engineer)
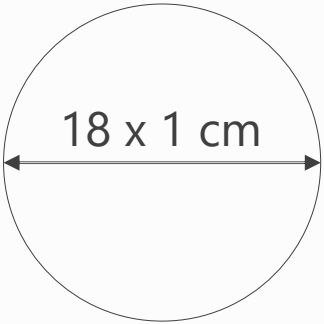
Agenda

- ► Packet material
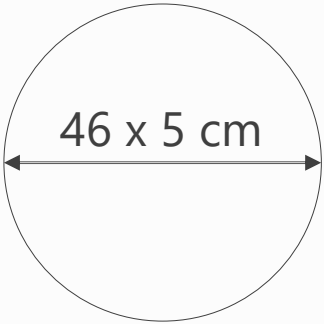- ► Layout machine
- ► Process flow
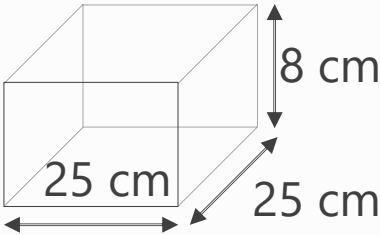- ► Operation flow

Packet material

Packet material

ขนาดของ Packet Material		
No.	Type	Size
1	Small Reel เล็กสุด	18x1 cm.
2	Big Reel ใหญ่สุด	46x5 cm
3	PCB	25x25x8 cm
	กล่อง	
4	-สูงสุด	38x40x26 cm
5	-กว้างสุด	41x41x5 cm
6	-ยาวสุด	27x64x21 cm
7	-เล็กสุด	19x19x5 cm

18 x 1 cm

1. Small Reel

46 x 5 cm

2. Big Reel

8 cm
25 cm
25 cm

3. PCB

High maximum 26 cm
Maximum 64 cm
Maximum 41 cm
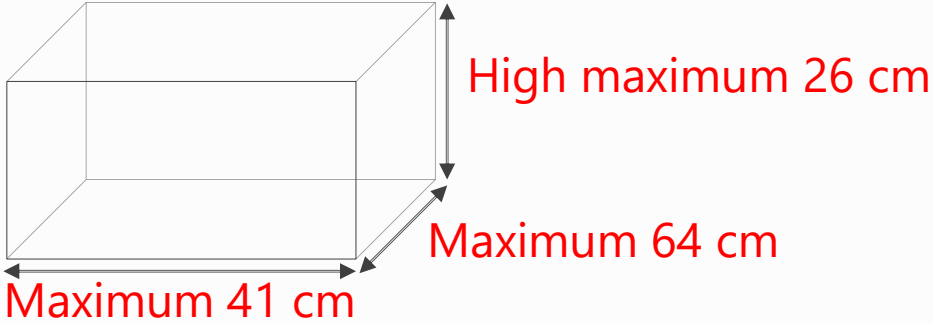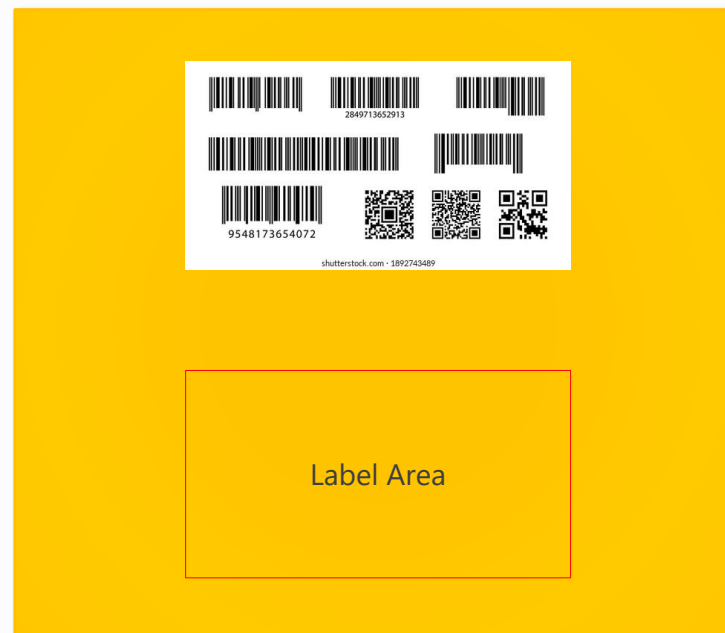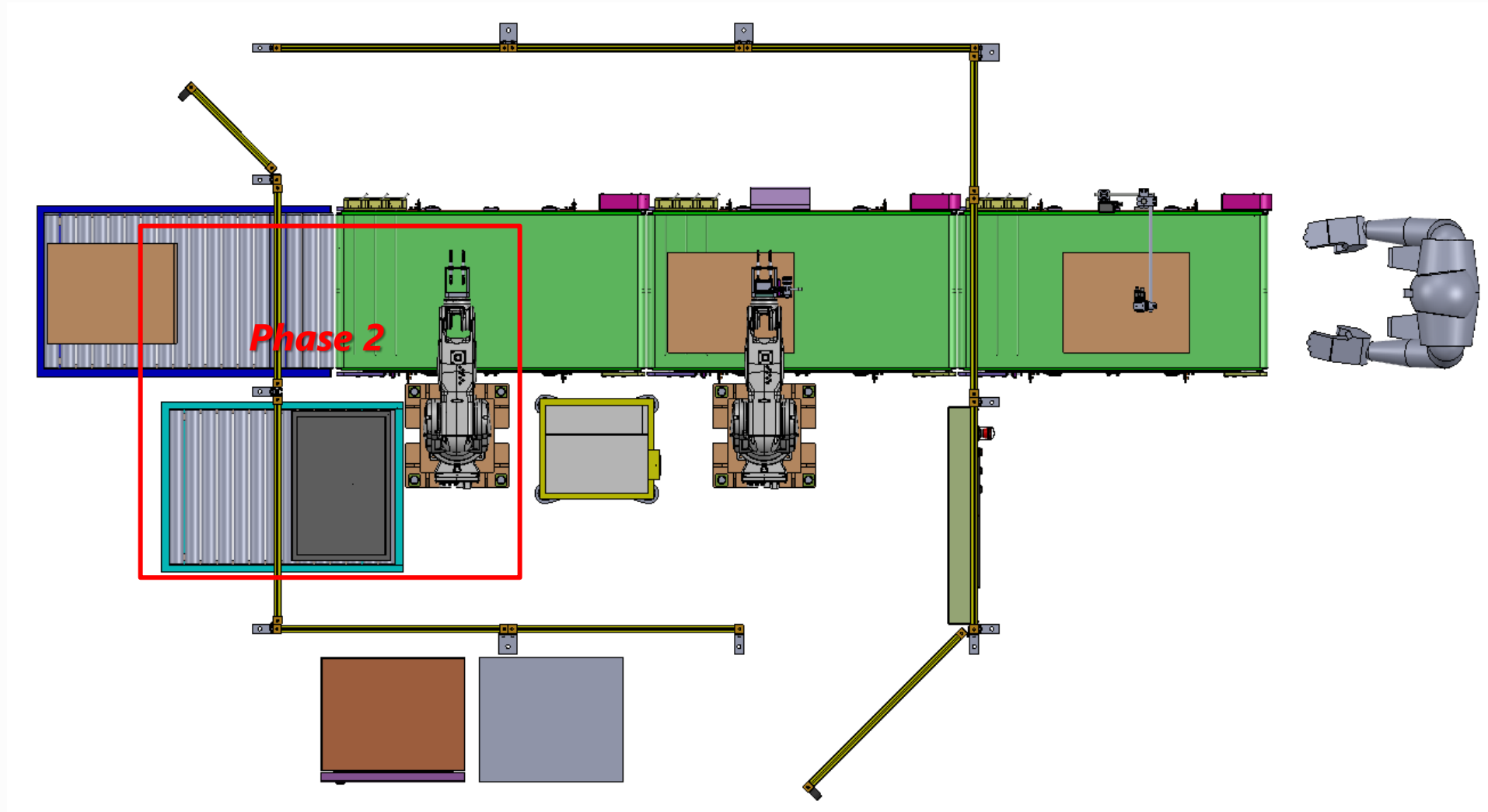
4. Box

Packet material

Packet materials that can participate in the Auto process

Reels

Box or PCB (label on top)

Layout machine

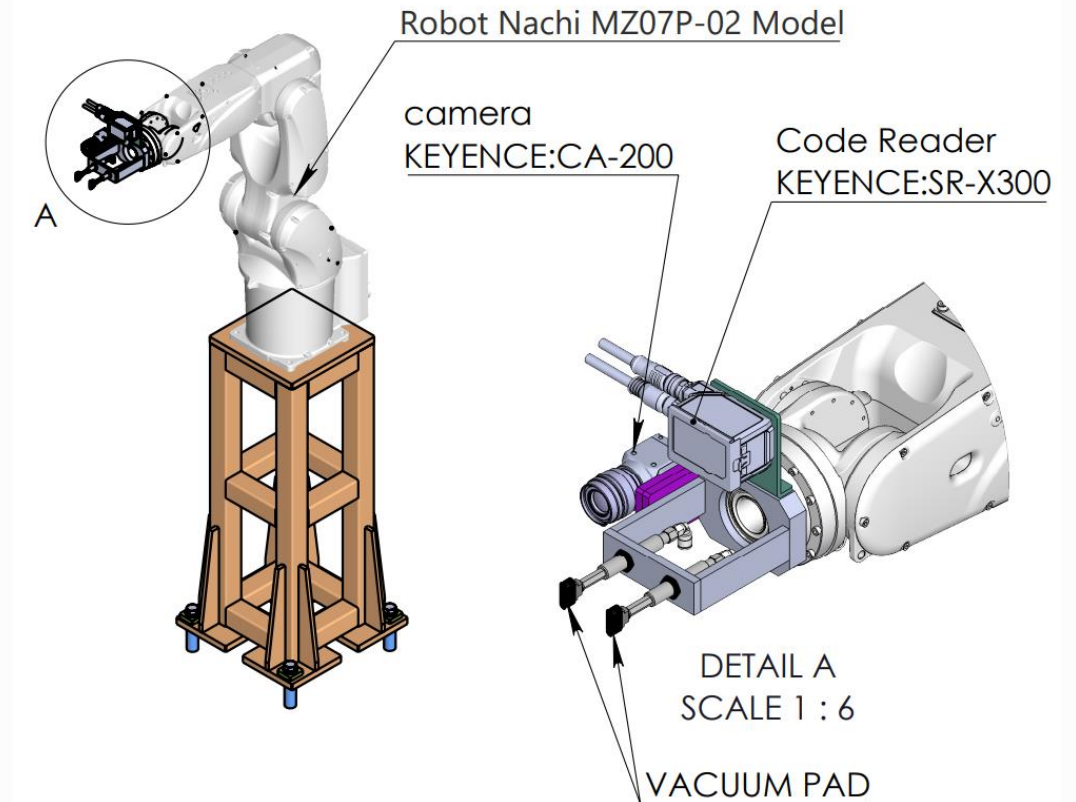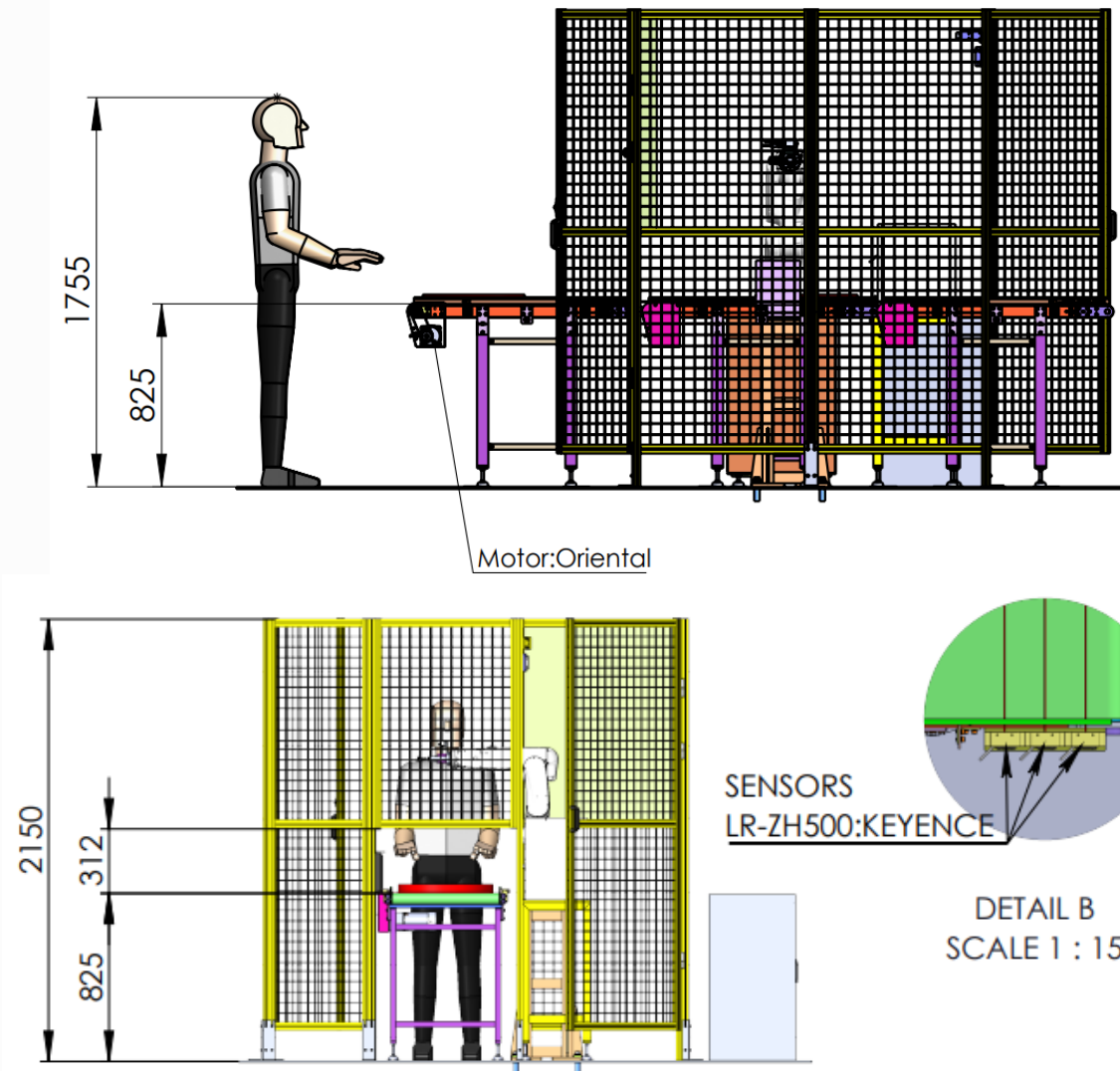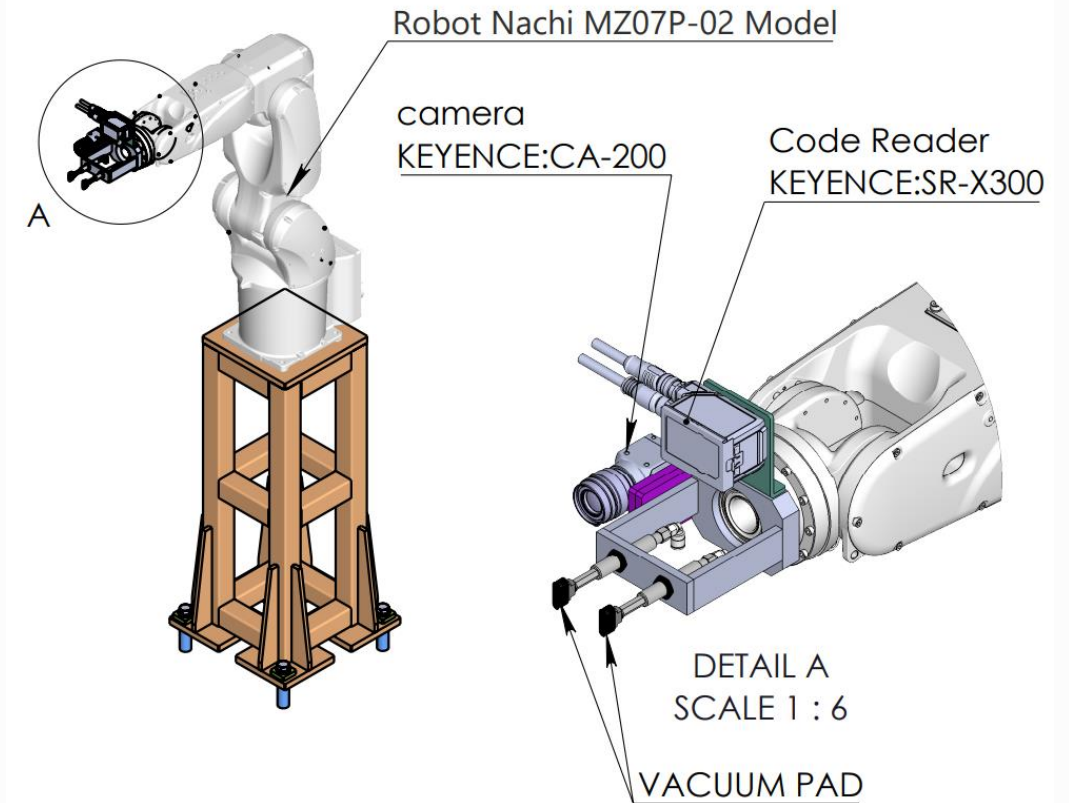# Layout machine

Phase 2

Layout machine Phase 1

1755
825

Motor:Oriental

2150
312
825

SENSORS
LR-ZH500:KEYENCE

DETAIL B
SCALE 1 : 15

Robot Nachi MZ07P-02 Model

camera
KEYENCE:CA-200

Code Reader
KEYENCE:SR-X300

A

DETAIL A
SCALE 1 : 6

VACUUM PAD

Layout machine Phase 2

Robot Nachi MZ07P-02 Model

camera
KEYENCE:CA-200

Code Reader
KEYENCE:SR-X300

A

DETAIL A
SCALE 1 : 6

VACUUM PAD

SENSORS
LR-ZH500:KEYENCE

DETAIL B
SCALE 1 : 15

2150

312

825

Layout machine

Monitor 19 inch

HMI Screen
VT5-W10:Keyence

DETAIL E
SCALE 2 : 25

Process flow

Process flow
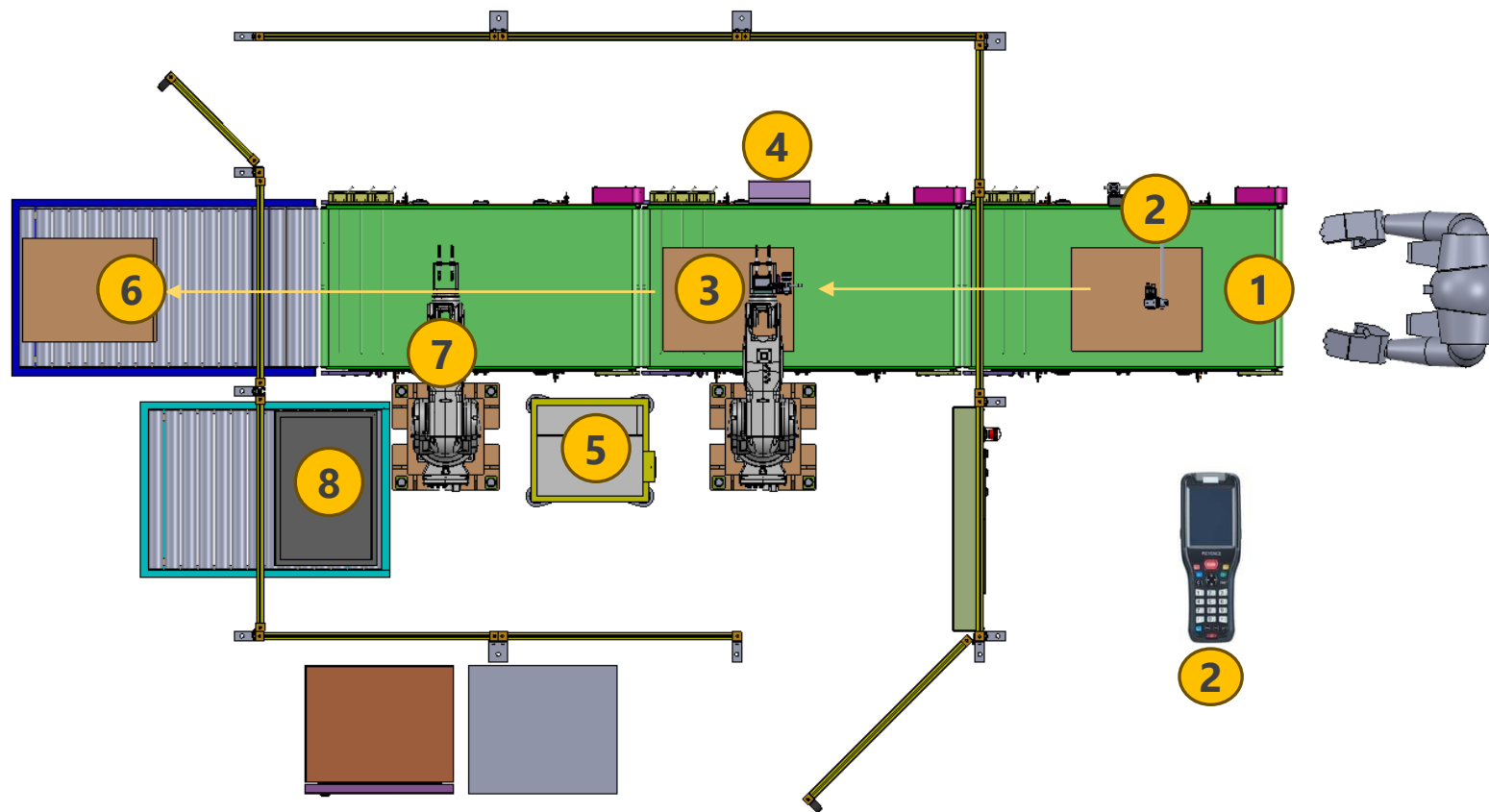
Phase 1

Phase 2

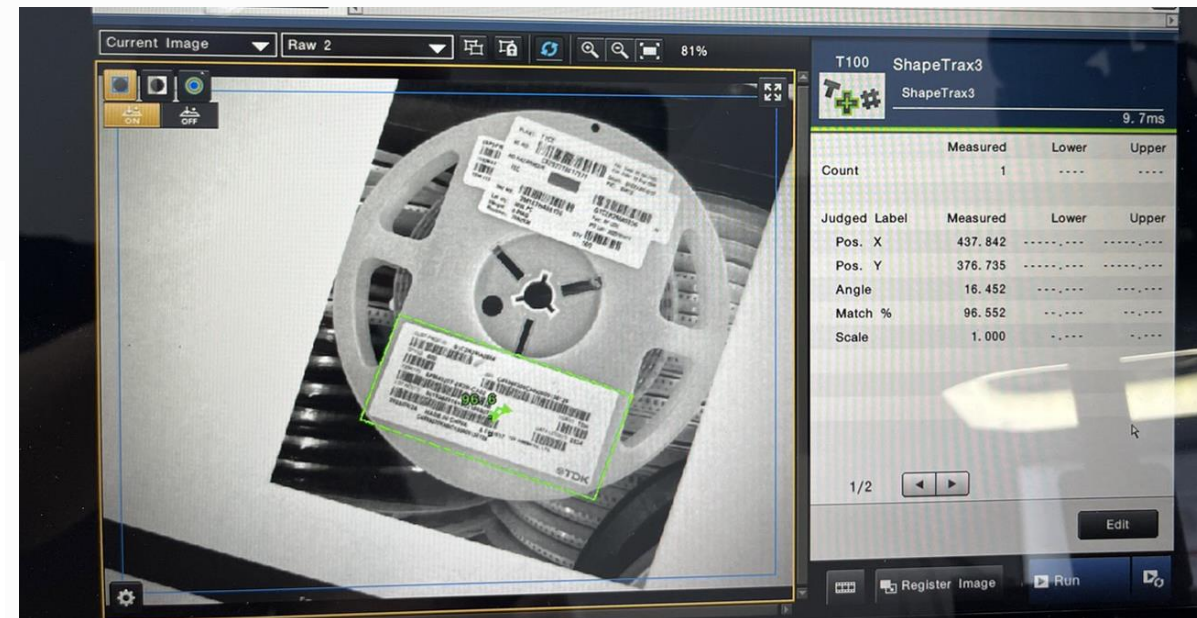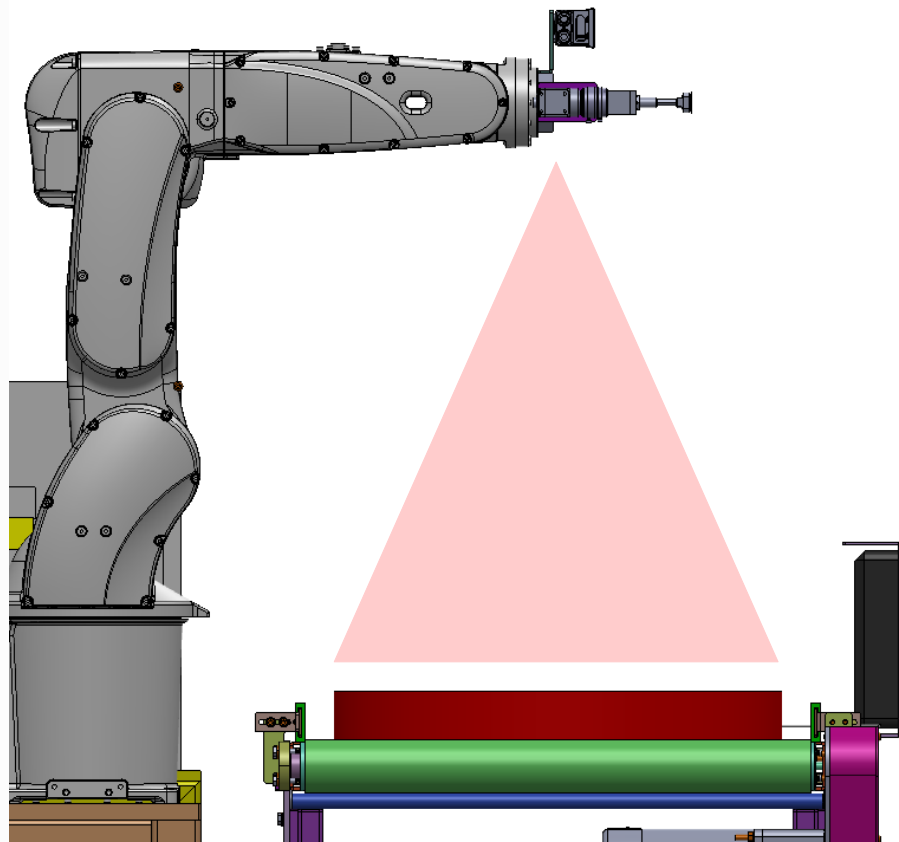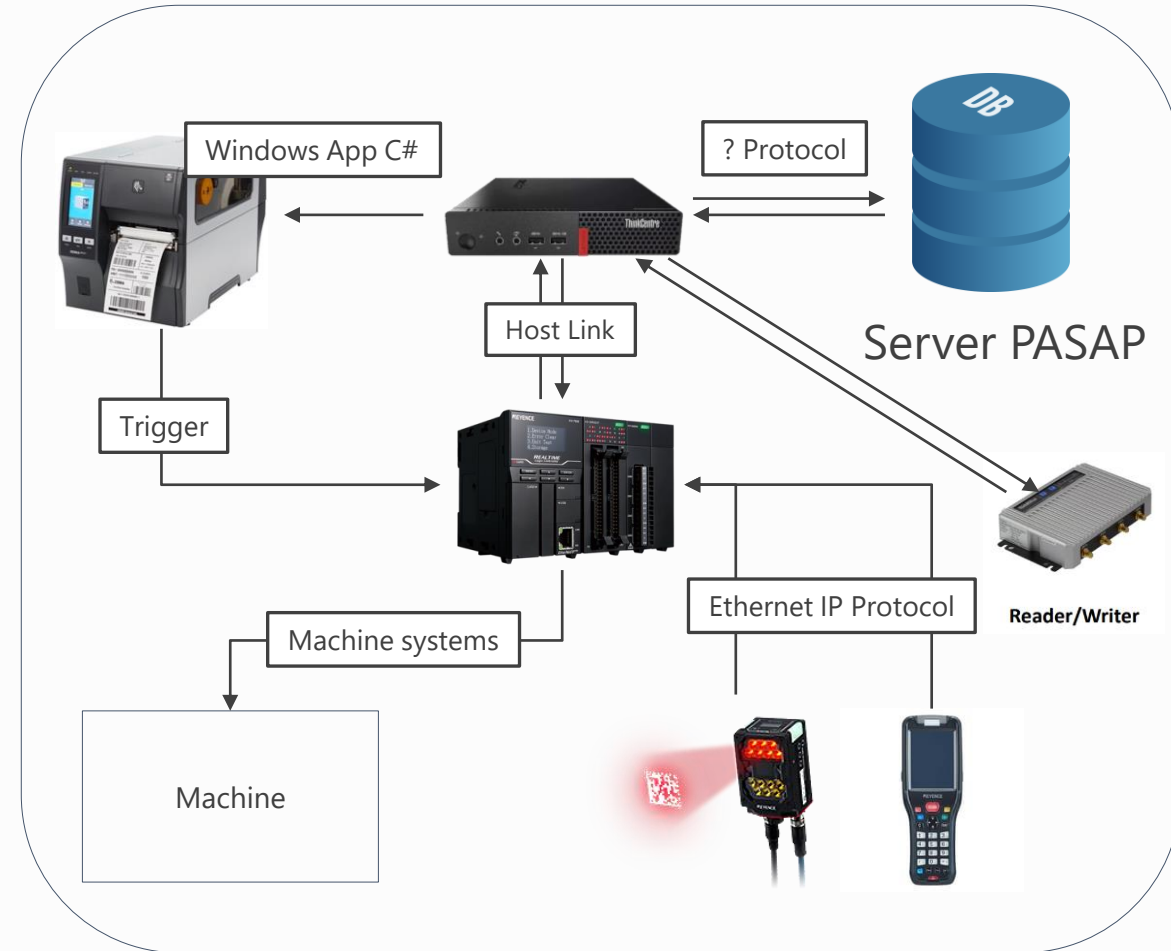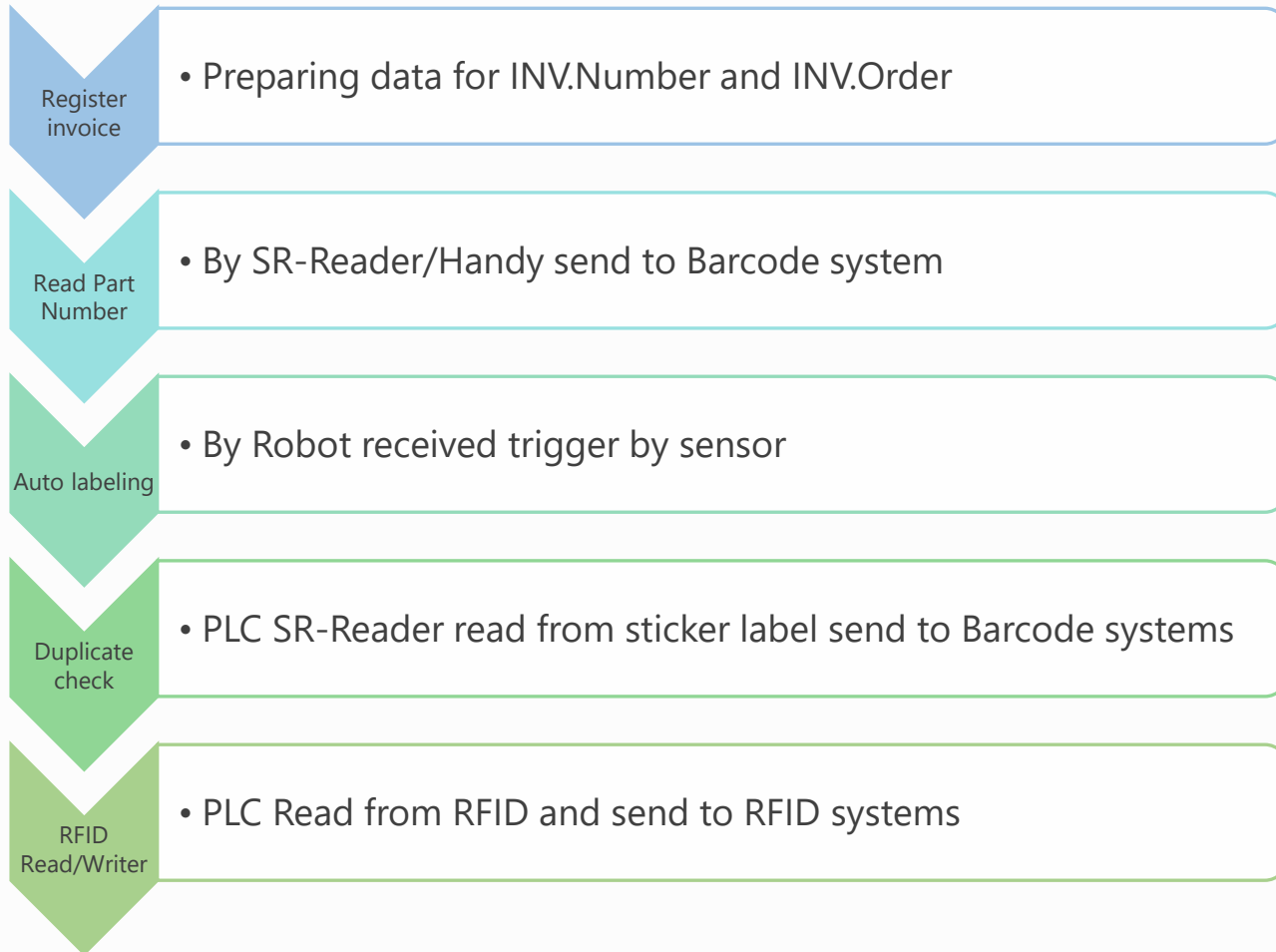1. Place the work piece on the first Conveyor, after which the Conveyor will transport the work piece to the second point.
2. Use SR-Reader *In cases where work cannot be read with SR, Handy will be used instead. scan at work for select model and send the model to the computer to print labels
3. When the workpiece reaches the third position, the robot will use the camera to take pictures to find the current sticker position. and make an offset from the current position to the position to be pasted
4. After the sticker is finished, the robot will lift the Z axis and rotate the SR-Reader to read the information after the sticker is finished.
5. In the case of a model with RFID, information will be written as well.
6. After data confirmation is complete, the workpiece will be sent to the load-out location.
7. After the auto labeling process is completed, point number 7 will be the work sorting point. In order to put it in the box, point 8, in the case of the work being Reels, if it is a Box, it will be released to point 6.

Process flow

Operation flow

Register invoice	• Preparing data for INV.Number and INV.Order
Read Part Number	• By SR-Reader/Handy send to Barcode system
Auto labeling	• By Robot received trigger by sensor
Duplicate check	• PLC SR-Reader read from sticker label send to Barcode systems
RFID Read/Writer	• PLC Read from RFID and send to RFID systems

Windows App C#

? Protocol

DB

Host Link

Server PASAP

Trigger

Ethernet IP Protocol

Reader/Writer

Machine systems

Machine

Proposals that only we can make

With a wide range of **"Soft" x "Hard" solutions, which is our strength,**
We will solve problems in various situations at manufacturing and distribution sites.

Picking System   **Handy terminal System / Tablet System**   **RFID System**   **Monitoring / Traceability System**

Contact

✉ info@tomastc.com

📞 TH/EN: +66-81-012-6064 (Anek)
JP/TH/EN: +66-94-552-3097 (Nozaki)

f TOMAS TECH

🌐 http://www.tomastc.com

🌍 7/1(3C) Soi Sukhumvit 103 (Udomsuk 46) Sukhumvit Bang Na, Bangkok 10260