



ACE CREATION CO.,LTD

บริษัท เอชีอี กรีเอชั่น จำกัด

## Company Profile

Company Name : **ACE CREATION CO.,LTD**

: บริษัท เอชีอี ครีเอชั่น จำกัด

Address : 119/15 M.2, Nong Bon Daeng, Ban Bueng , Chon Buri 20170

: 119/15 หมู่ที่ 2 ตำบลหนองบอนแดง อำเภอบ้านบึง จังหวัดชลบุรี 20170

Establishment : 18/03/2013

Capital : 5,000,000 THB

Business Type : Automation Machine /Spare part Maker

Contact : Mr. Anake Boonpol Tel.086-3468270

: email : ace.creation88@gmail.com

## ManPower

**Total number of employees = 26 Person**



9 License



7 License



1 License

1. ME Design = 9 Persons

# Design Experience

- 20 years = 1 person
- 16 years = 1 person
- 12 years = 1 person
- 6-8 years = 4 person
- 2 years = 2 person

3. Electrical= 3 Persons

- programmer Experience 15 year = 1 person
- wiring= 2 person

4. Machine Shop = 5 Persons

- Machine Assy Experience

2. Mechanical Ass'y = 10 Persons

# Machine Assy Experience

- 8-10 years = 3 person
- 4-5 years = 2 person
- 2-3 years = 3 person
- 1-2 years = 2 person

5. Admin= 2 Persons

## MACHINE PART

- 1.CNC Machining Center 4 MC
  - Brand : Mainford Model : VL-1000  
Table Size : 1000x500x560
  - Brand : Forcaseki Model : VMC-600  
Table Size : 600X400x300
  - Brand : Bridgeport Model : V710  
Table Size : 700X500X300
  - Brand : Bridgeport Model : GX600  
Table Size : 600X400X300
- 2.CNC Lathe 1 MC
  - Brand : YDPM Model : ML-480  
Size : DIA.100x500 MM
- 3.Milling Machine 3 MC
  - Brand : shizuoka  
Table Size : 600x300x400
- 4.Milling Machine 1 MC
  - Brand : Okuma Howa : STM-2R  
Table Size : 700x300x400
- 5.Lathe Manual 2 MC
  - Brand : Kinwa :CH-530  
Size: 530x1700
- 6.Grinding 1 MC
  - Brand : Okamoto : ACC450DX  
Size : 200x450X300
- 7.Horizontal Band Saw MC
  - Brand : AMADA : HA250  
Size : DIA.250x600L

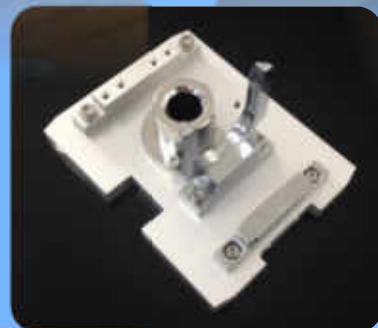


## Spare Parts

### Spare Parts:

- Improvement New Design & Test Sol. Problem
- Making Spare Part
- Making Master for Machine

### Sample Pic:



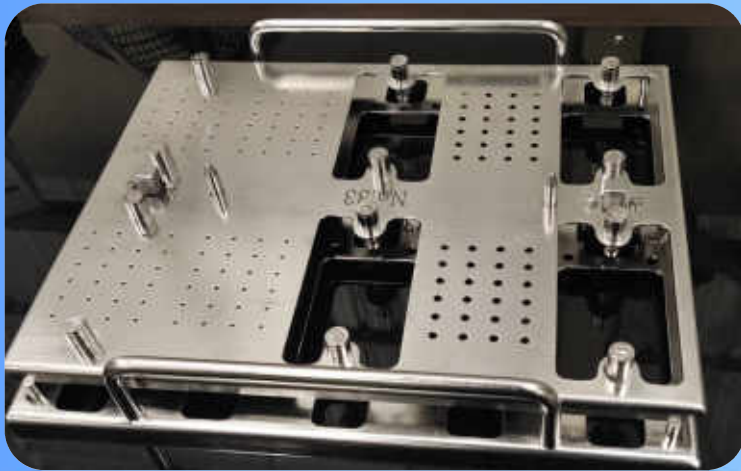
Sample



Sample



## FABRICATION PRODUCT



**PALLET**



**PALLET**

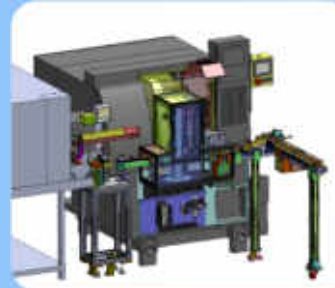
## Automation Machine

### Project Automation Design :

- Automation Machine
- Jig & Fixture Design
- Electrical Wiring & Programme

### Machine :

- Servo Press, Load Cell ,Linear Scale
- Hydraulic Press, Air Hydro Press
- Servo Nut Runner & Air Nut Runner
- Air Leak Test, Robot Sealing
- Auto Load Transfer Pick & Paste
- Washing Machine, Air Blow, Cooling
- Inspection Machine ,Resistance Check
- Camera Inspection
- Robot System
- Conveyor
- Ect.

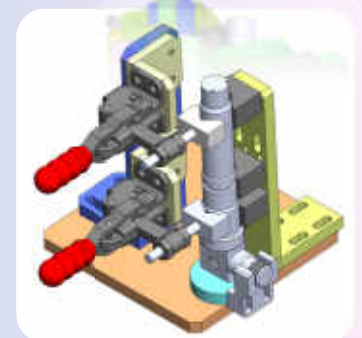
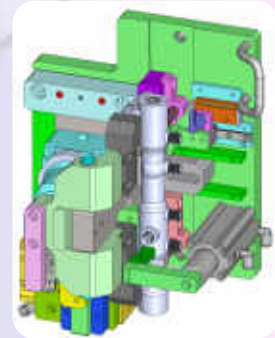


### Programme PLC:

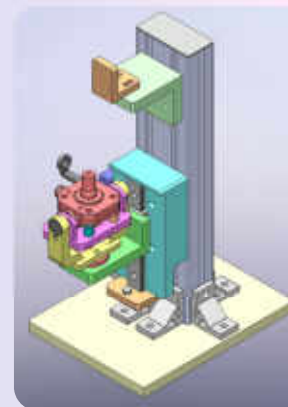
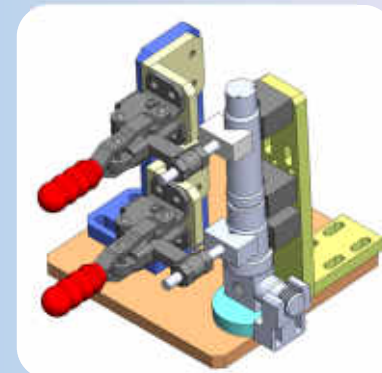
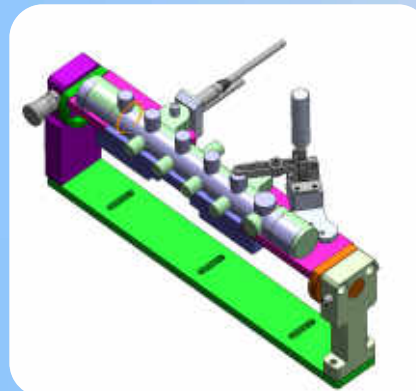
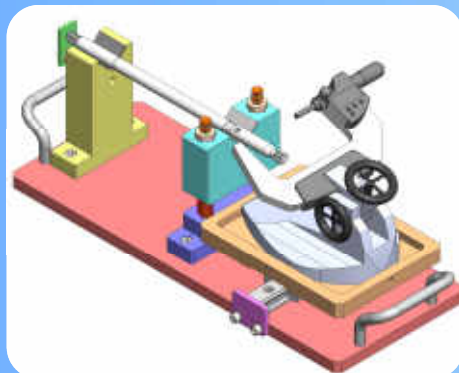
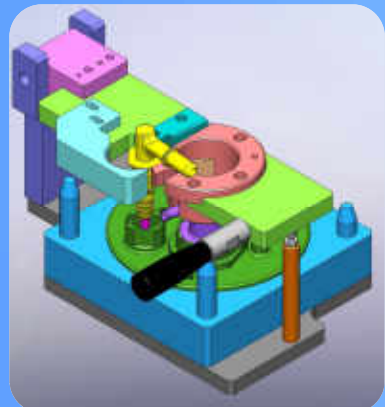
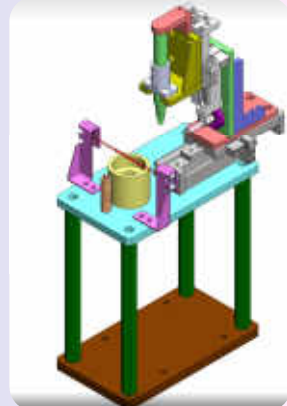
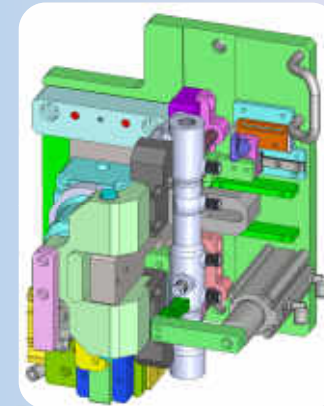
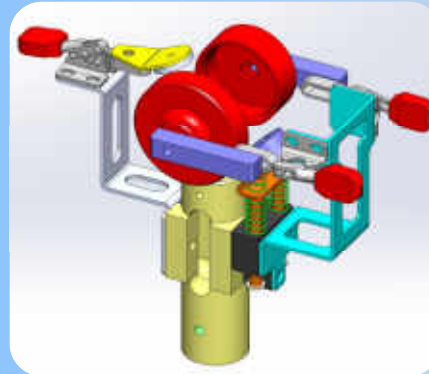
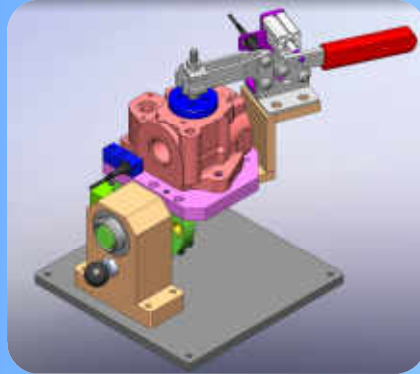
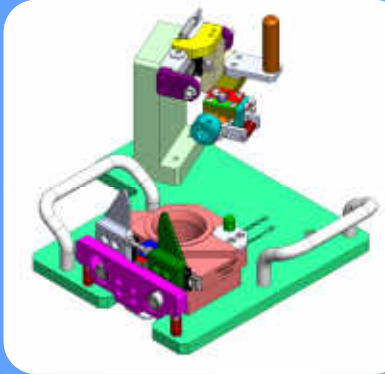
- PLC, Keyence, Omron, Mitsubishi
- Vision Camera, BarCode Reader
- ID Tag Data Logger
- Robot, Cobot

### Programme PC:

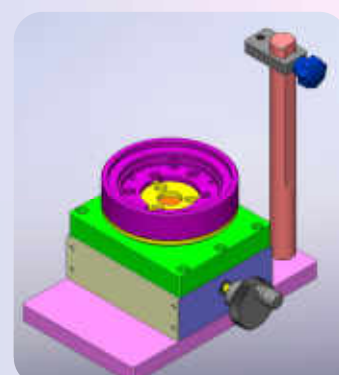
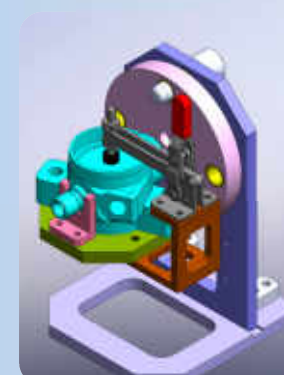
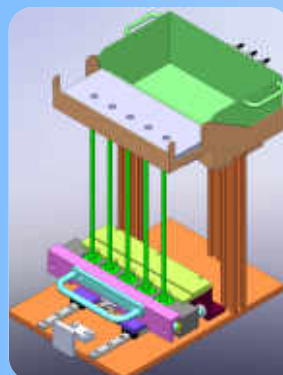
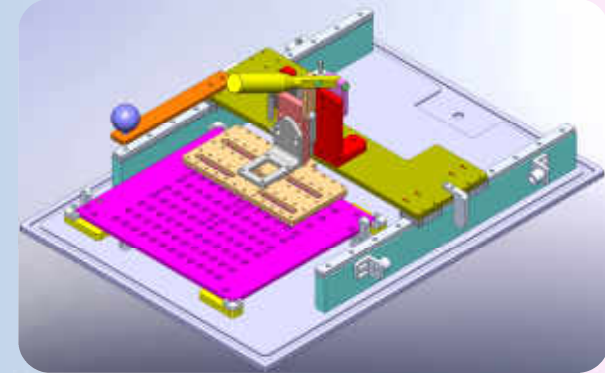
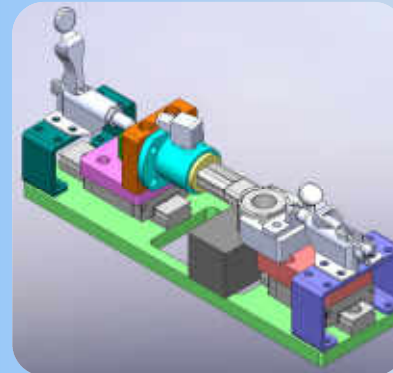
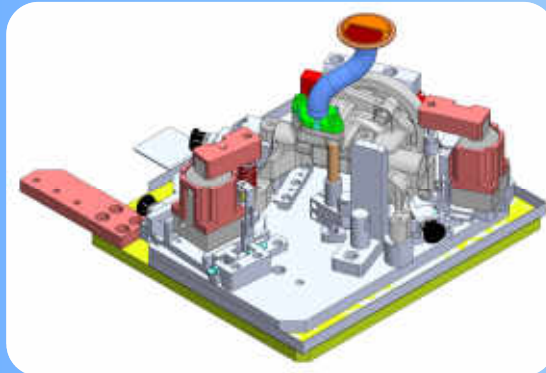
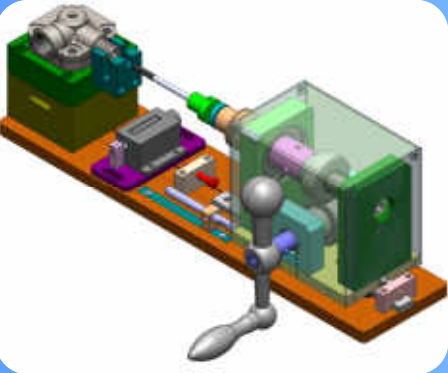
- Visual Basic, C++, C#
- Node Red, Web Assets
- PC Base , Data Collector
- IoT



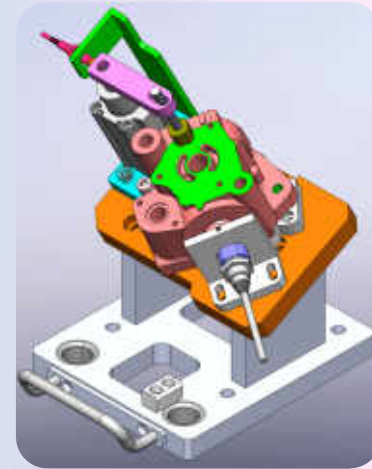
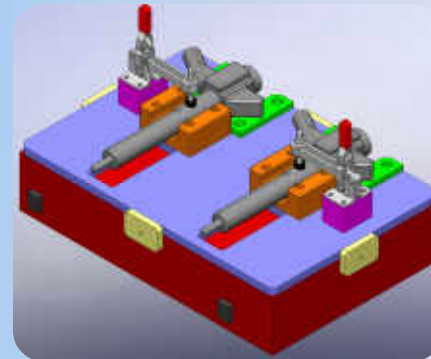
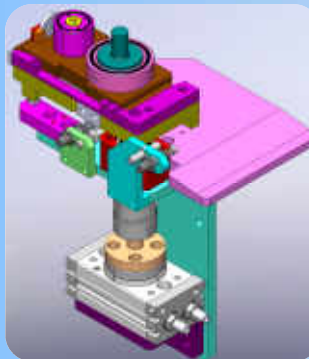
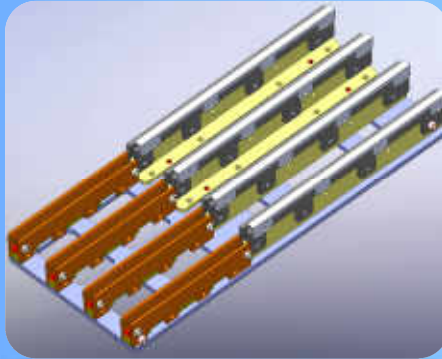
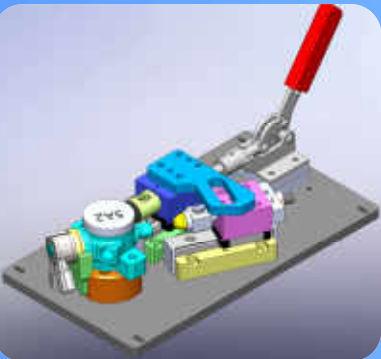
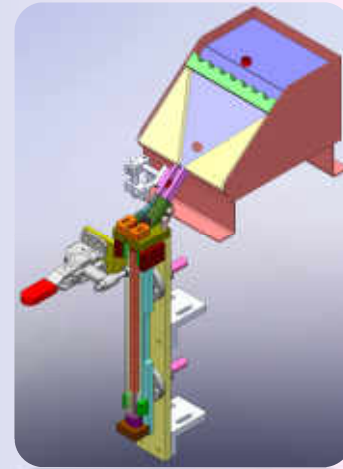
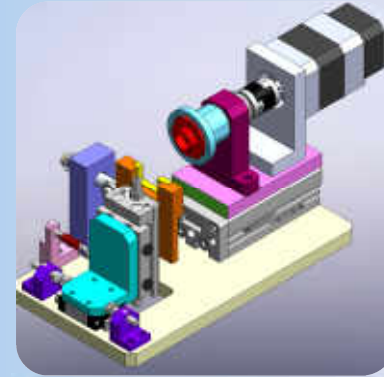
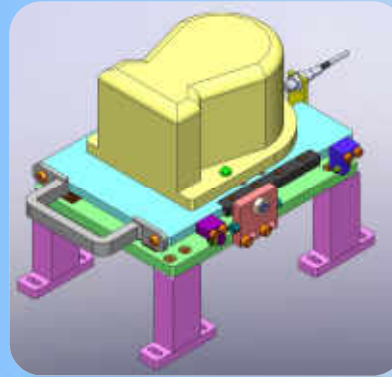
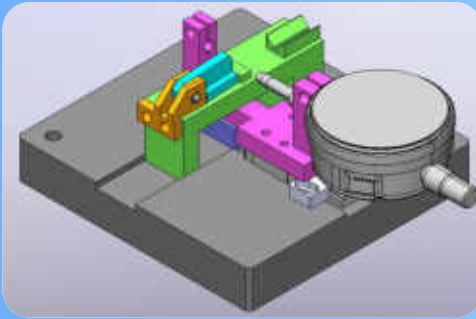
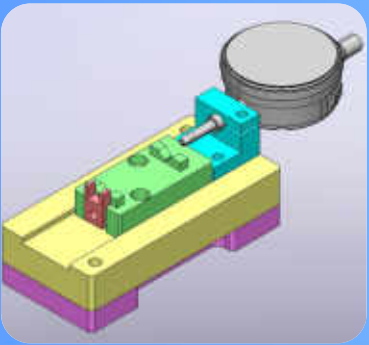
## JIG FIXTURE



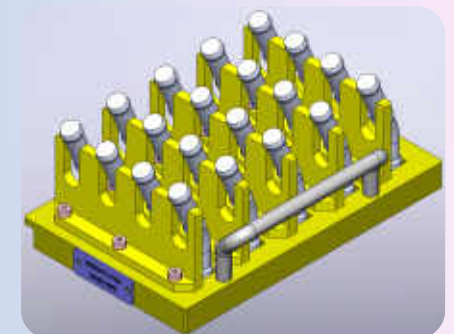
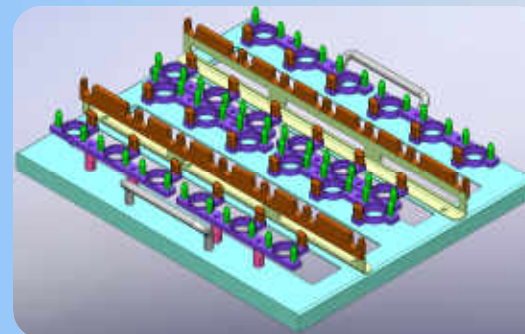
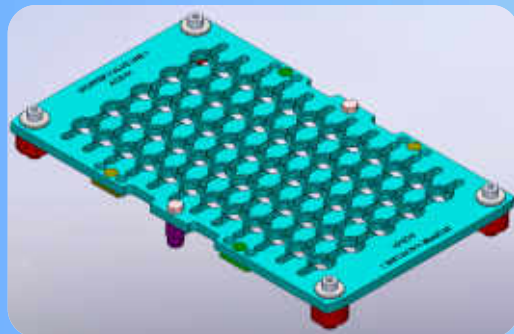
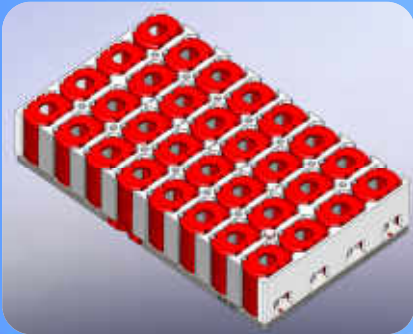
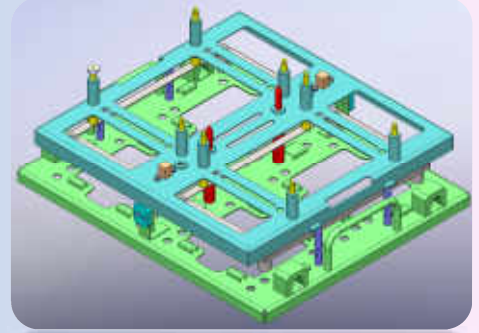
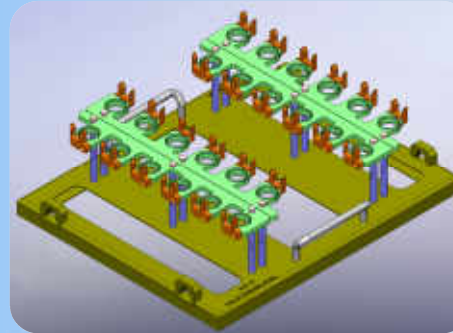
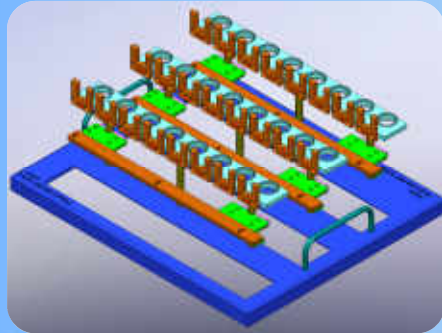
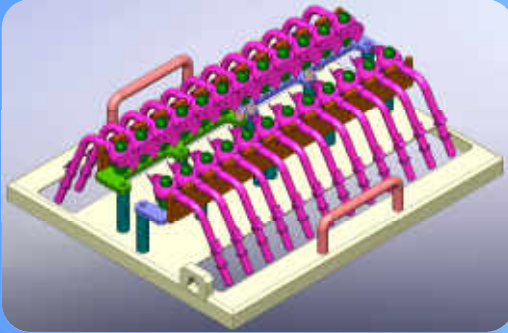
## JIG FIXTURE



## JIG FIXTURE



## JIG FIXTURE



## MACHINE

- Air Blow & Vacuum
- Micro Scope
- Rust Proof



Vacuum, Bore scope



Visual Inspection

- Camera Vision
- Conveyor Roller
- Lift up-down Pallet

- Cobot : Denso
- Camera vision  
Keyence CA Series



Auto Visual Inspection

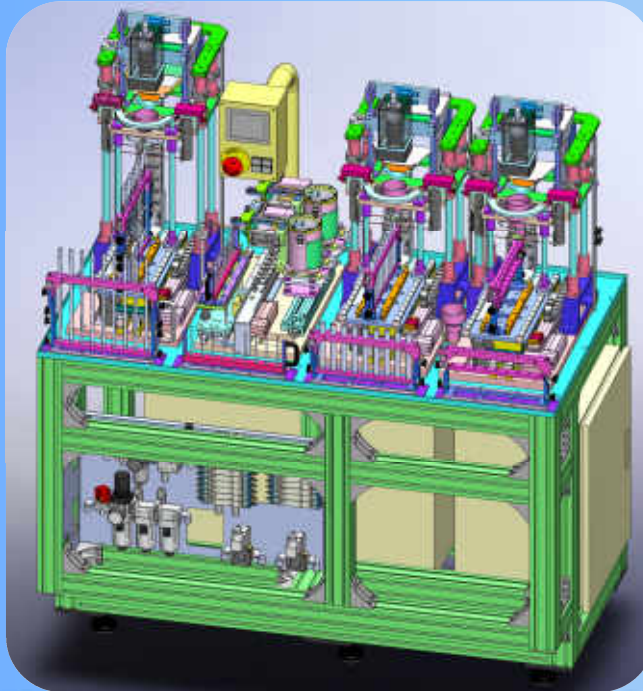


QR Code

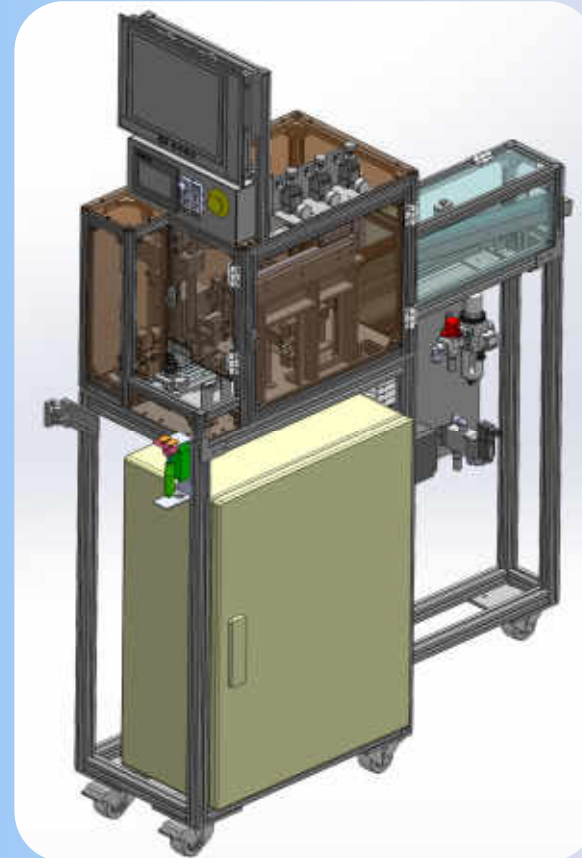
- QR Code Keyence  
SR100
- ID-Tag Read-Write

## MACHINE

- Camera vision  
Keyence CA Series
- Stepping Motor Oriental  
AZM
- Load in-out Magazine



Camera Pokayoke Check

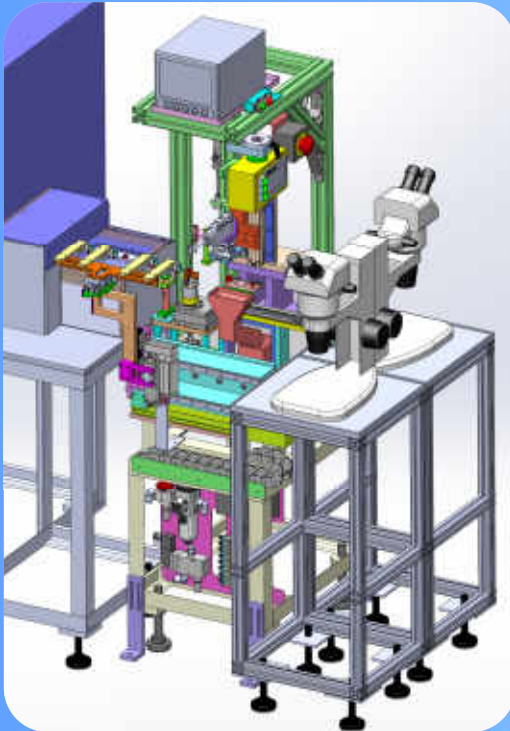


Auto Camera Inspection Check

- Camera vision  
Keyence CA Series
- Robot IAI

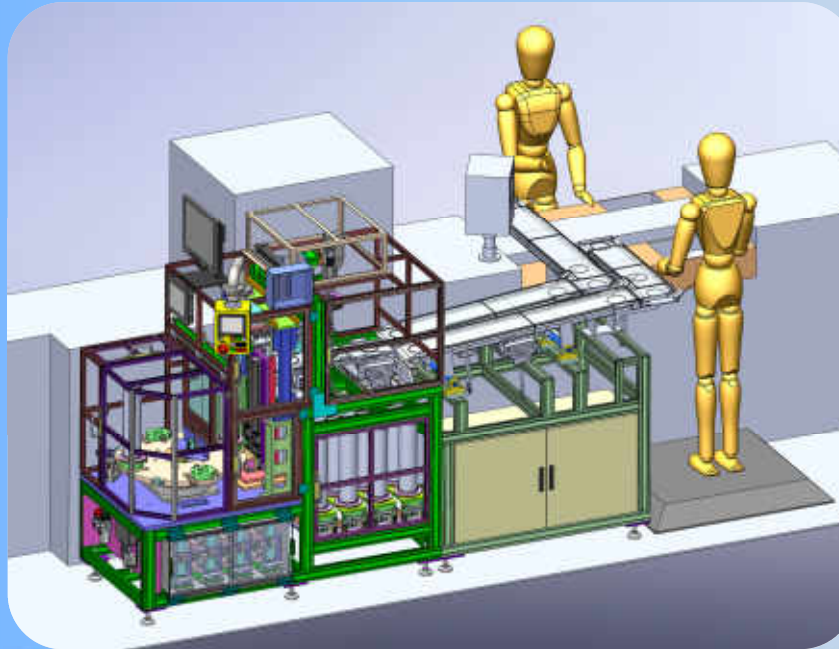
## MACHINE

Dimension Check By  
Air Micro



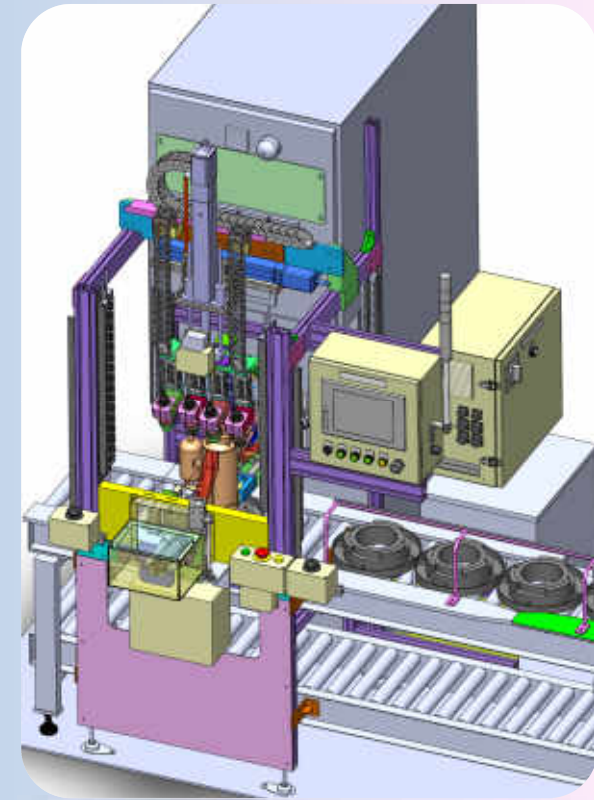
- Air Micro
- Robot IAI

Camera Oring Counter



- Load In By Magazine
- Turn Table Absodex : CKD
- Visual Camera : Keyence
- Data Memory to PC
- Transfer By Conveyor

Resistance Check



- Resistance Check : HIOKI
- Stepping Oriental Motor AZM
- Conveyor Roller

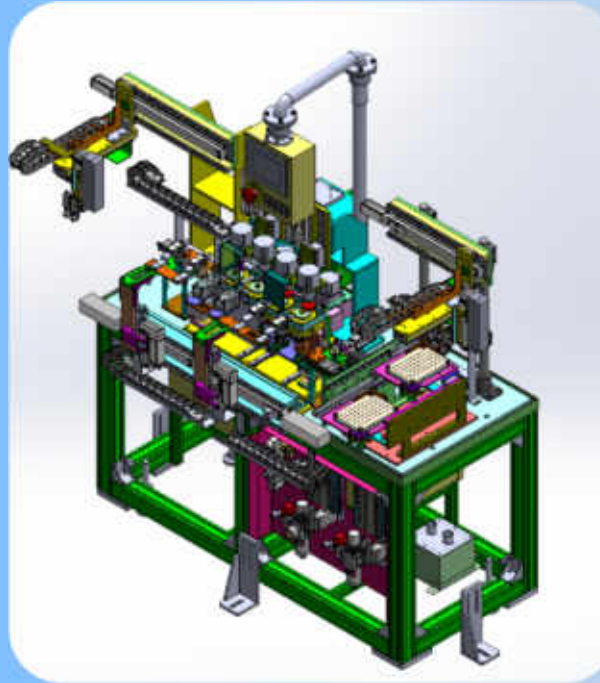
## MACHINE

Lapping MC



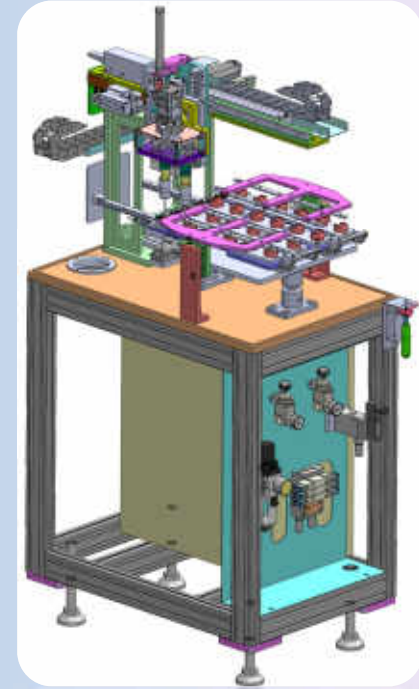
- Robot IAI
- Stepping Oriental Motor AZM
- Load In-Out By Pallet
- Magnetic Pump

Lapping MC



- Coverless
- Robot IAI
- Brushing
- Stepping Motor Oriental AZM
- Quick Change Tool

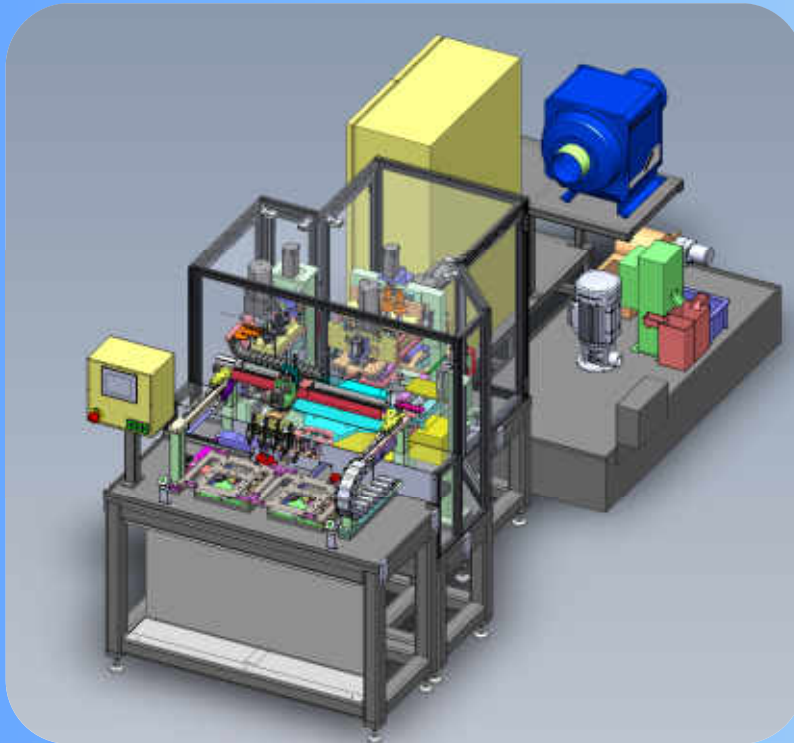
Lapping MC



- Coverless
- Robot IAI
- Brushing
- Stepping Motor Oriental AZM
- Quick Change Tool

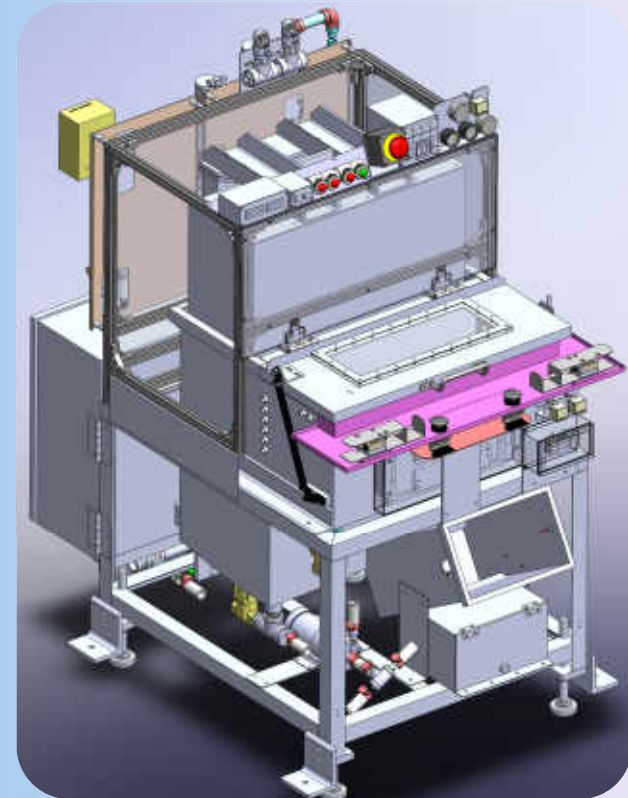
## MACHINE

### Brushing



- Index Table CKD
- Robot IAI
- Brushing
- Stepping Motor Oriental AZM
- Coolant Tank 300 L
- Quick Change Tool

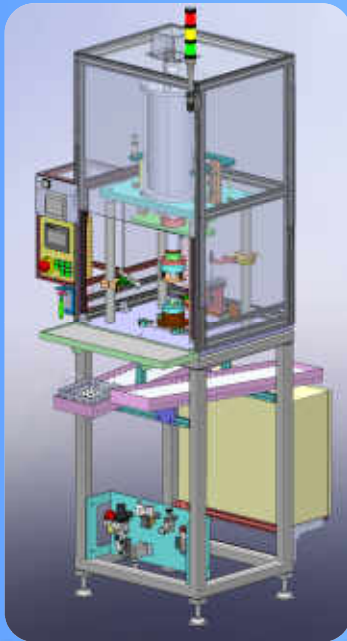
### Air Leak Test



- Pressure Switch
- Sub Tank
- Level Low-High

## MACHINE

Air Hydro Press



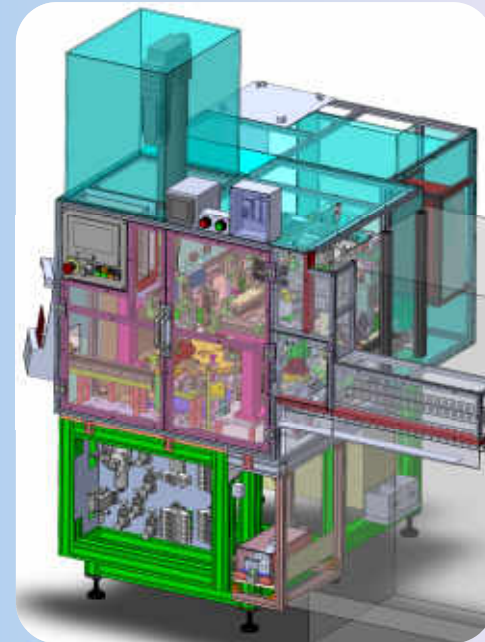
- Air Hydro Press : Hirotaka 3,000 N
- Load Cell : Kyowa
- Linear Scale : Keyence GT2
- Area Sensor

Air Hydro Press



- Air Hydro Press : Hirotaka 2,300 N
- Load Cell : Kyowa
- Linear Scale : Keyence GT2
- Area Sensor

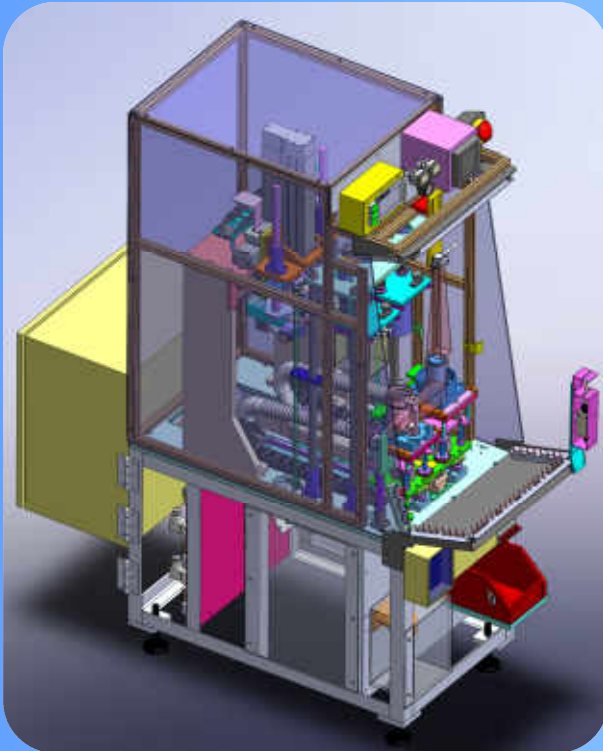
Servo Press



- Servo Press : Estic 5,800 N
- Load Cell : Kyowa
- Linear Scale : Keyence GT2
- Dispenser Musashi
- Index Table : CKD
- Area Sensor

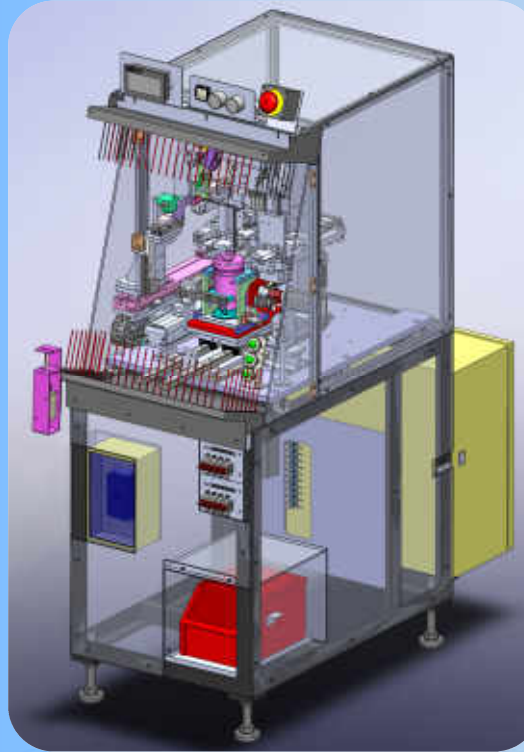
## MACHINE

Servo Press



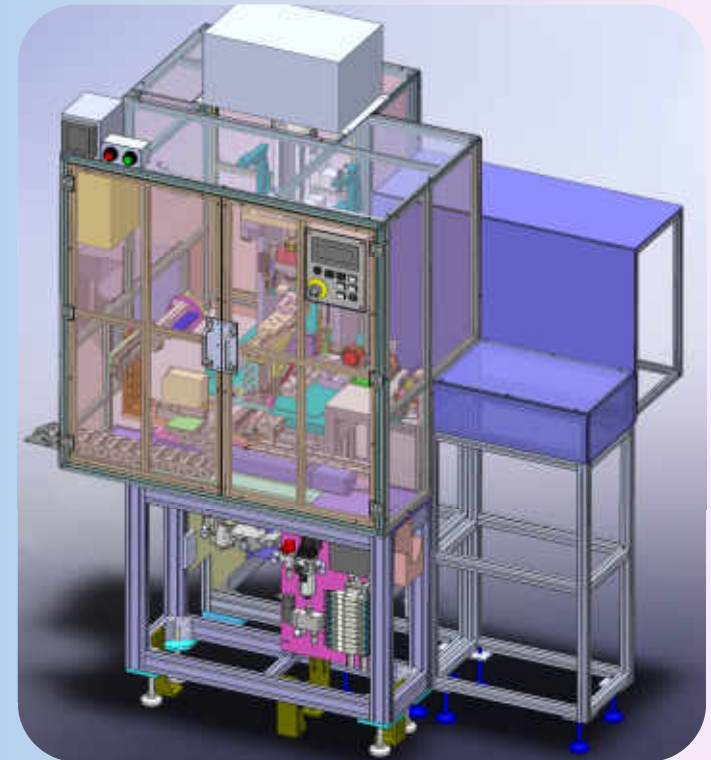
- Servo Press : Estic
- Load Cell : Kyowa
- Linear Scale : Keyence GT2
- Area Sensor

Tube Press



- Servo Press : Estic
- Load Cell : Kyowa
- Linear Scale : Keyence GT2
- Area Sensor

Air Hydro Press +Loader Auto

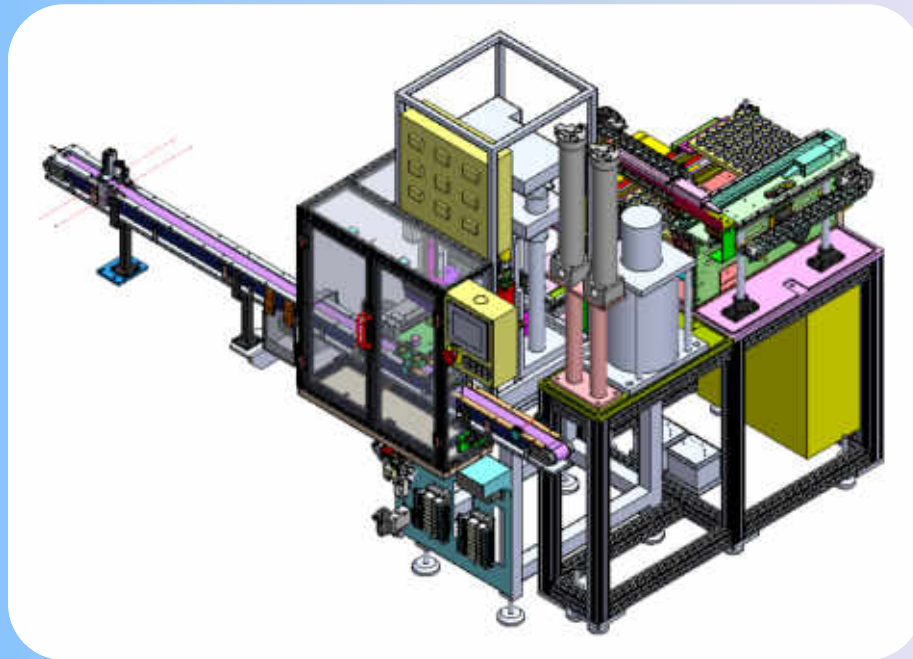


- Air Hydro Press : Hirotaka
- Load Cell : Kyowa
- Linear Scale : Keyence GT2
- Area Sensor

## MACHINE

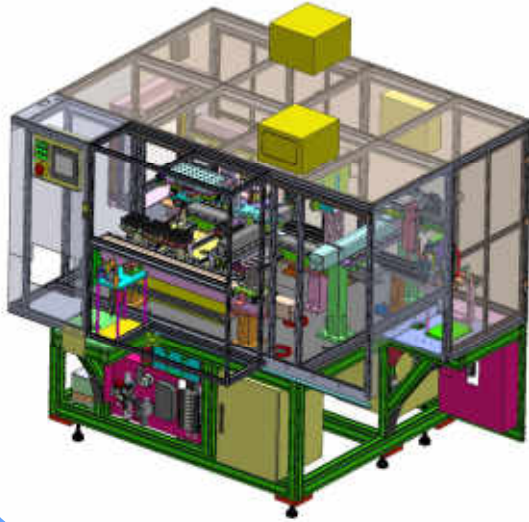
### Air Hydro Press+ Camera Check

- Air Hydro Press : Hirotaka 2,300 N
- Load Cell : Kyowa
- Linear Scale : Keyence GT2
- Camera Vision : Keyence CA
- Robot IAI
- Conveyor Transfer
- Area Sensor



## MACHINE

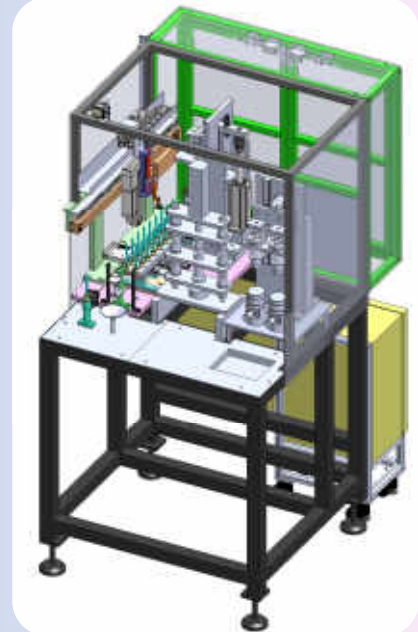
Matching MC



- Robot IAI
- Air micro
- Conveyor Transfer



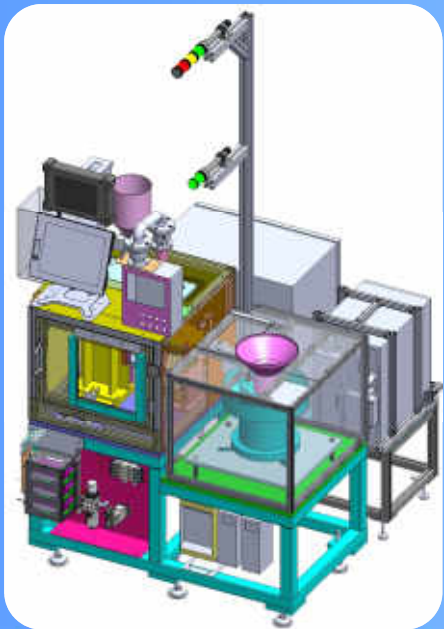
Matching MC



- Robot IAI
- Load Cell : Kyowa
- Linear Scale : Keyence GT2
- Area Sensor

## MACHINE

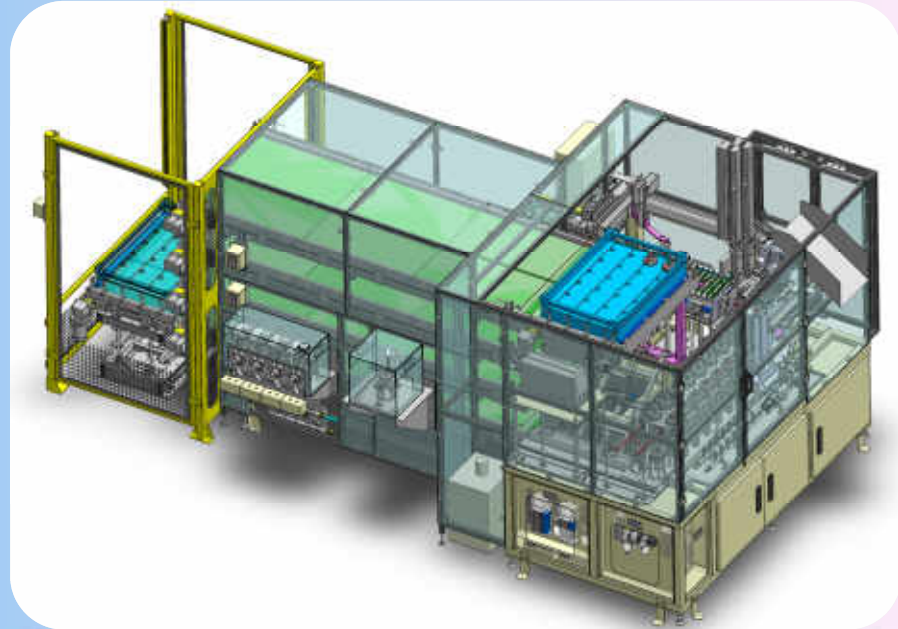
Laser Mark



Laser Mark



Laser Mark +Cooling



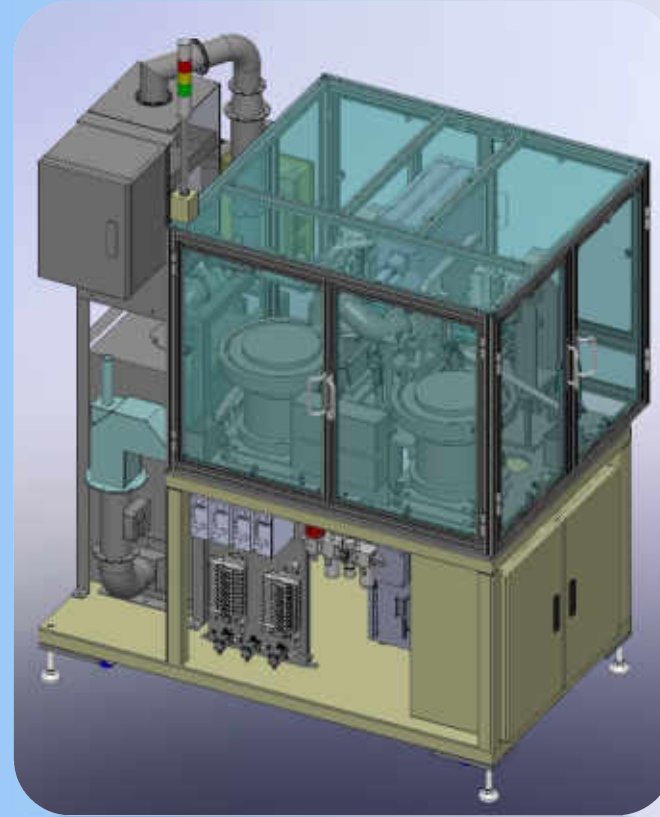
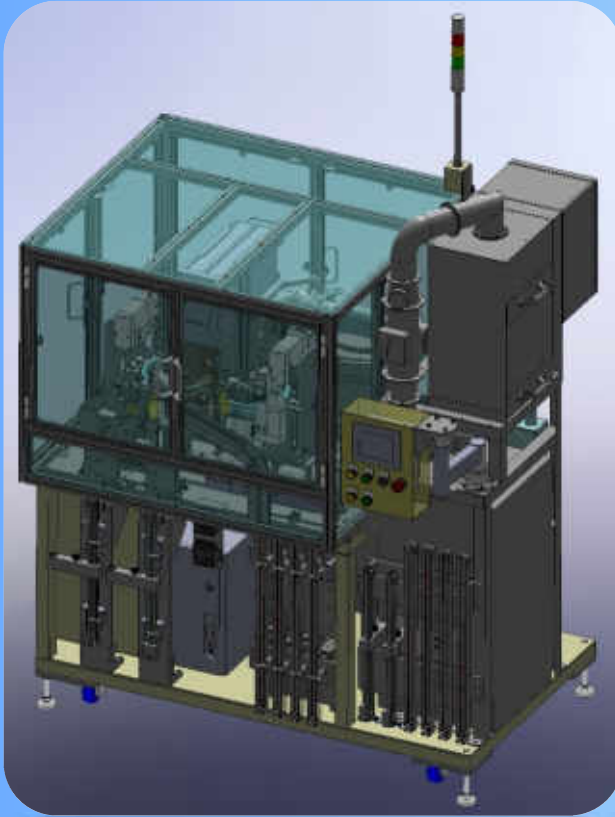
- Laser Mark : Keyence MD-X2000
- Index Tabel : CKD
- Bowl Feeder : BFC

- Laser Mark : Keyence MD-X2000
- Index Tabel : CKD
- Resistance : Hioki

- Laser Mark : Keyence MD-X2000
- Robot IAI
- Cooling Down
- Stepping Motor Oriental
- X-Lift
- Conveyor Transfer

## MACHINE

### Laser Mark



- Laser Mark : Keyence MD-X2000
- Robot IAI
- Bowl Feeder : BFC
- Dust Collector : Amano

## MACHINE



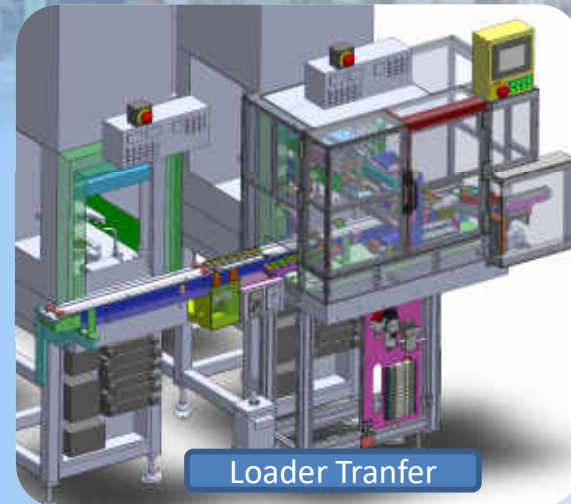
Auto Loader mc



Auto Loader mc

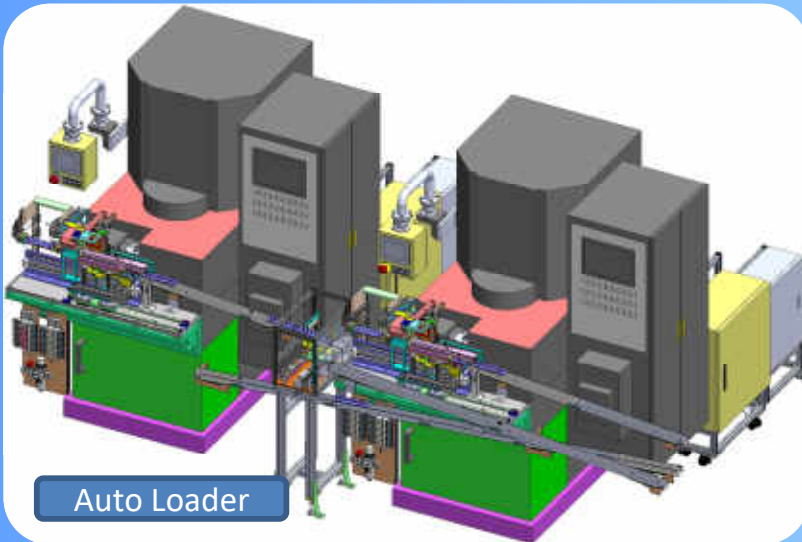


Auto Loader

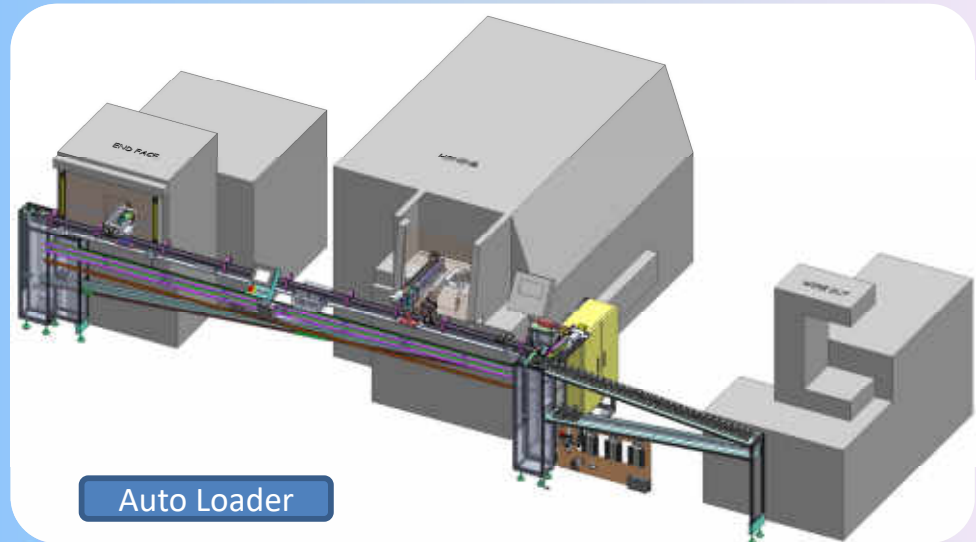


Loader Tranfer

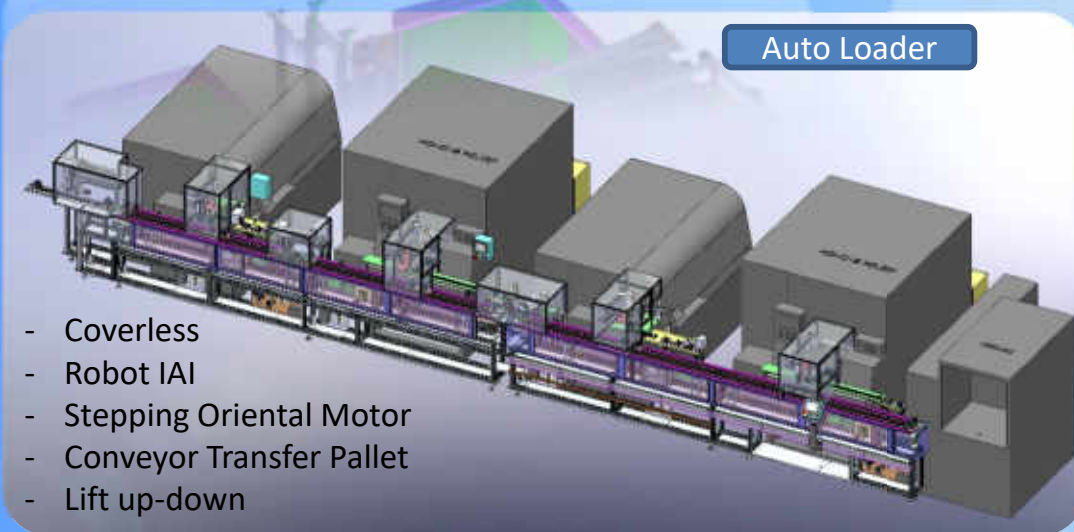
## MACHINE



Auto Loader

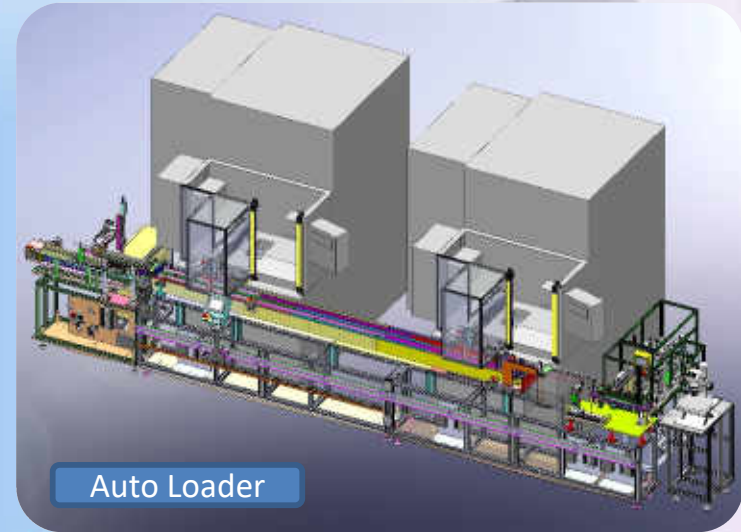


Auto Loader



Auto Loader

- Coverless
- Robot IAI
- Stepping Oriental Motor
- Conveyor Transfer Pallet
- Lift up-down

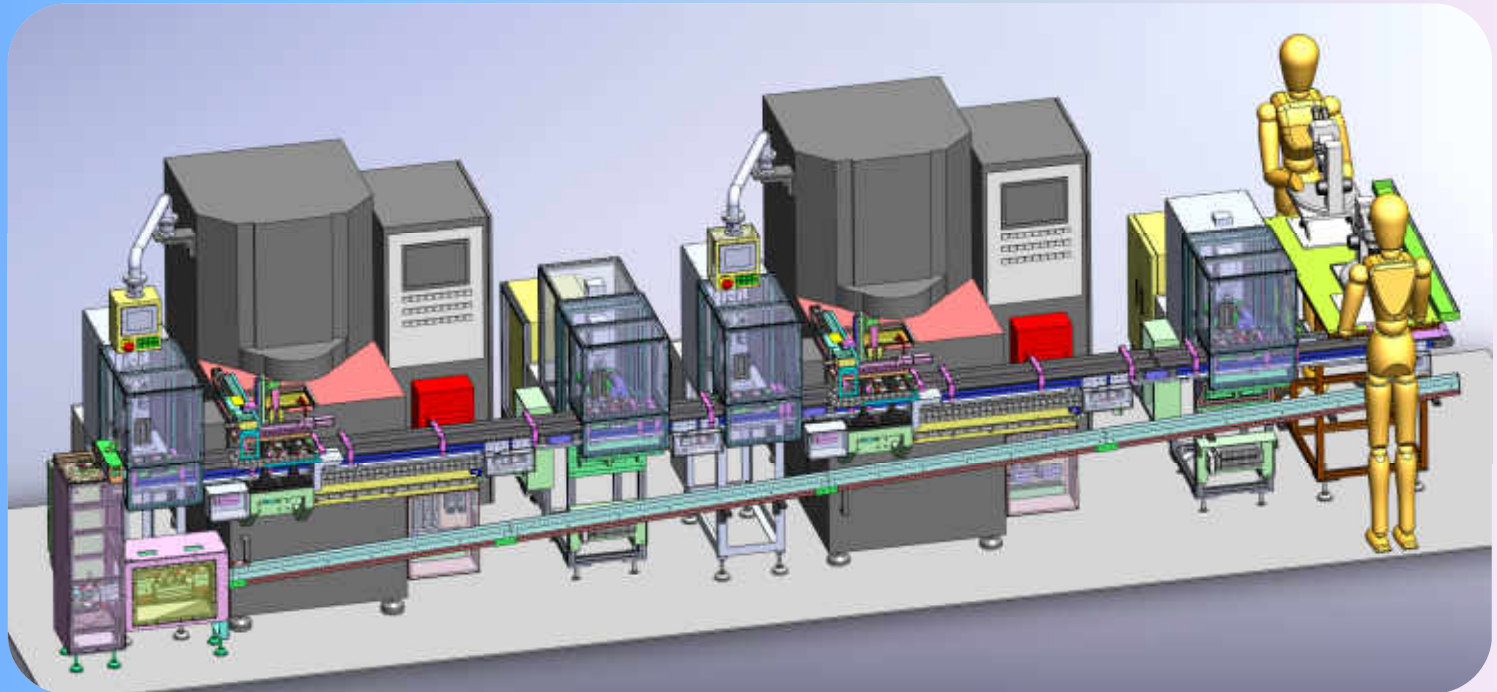


Auto Loader

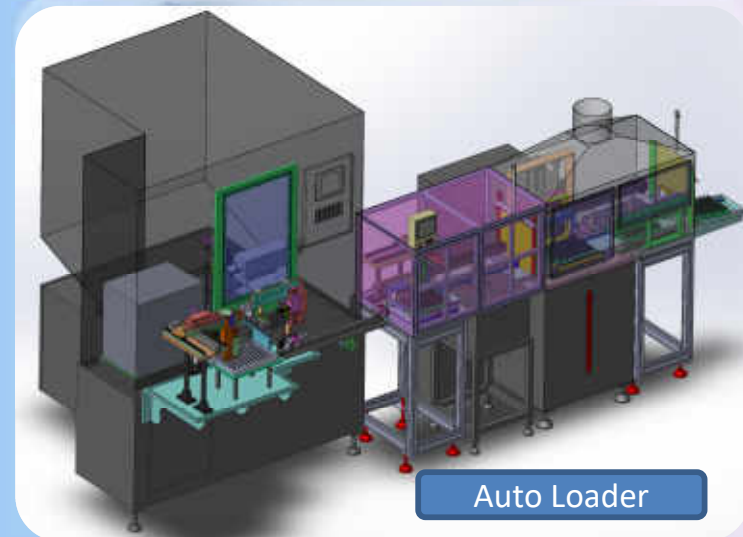
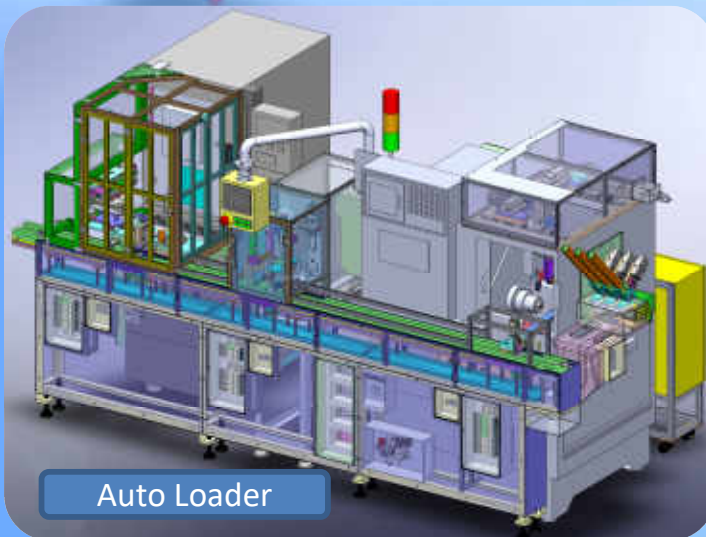
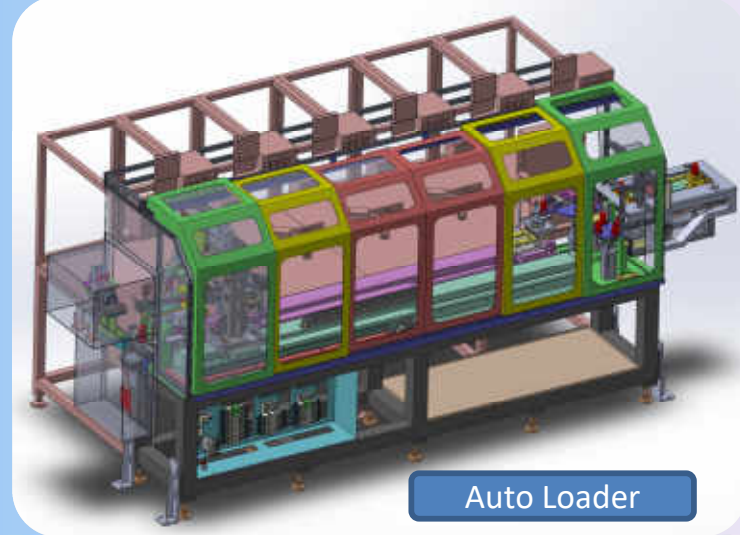
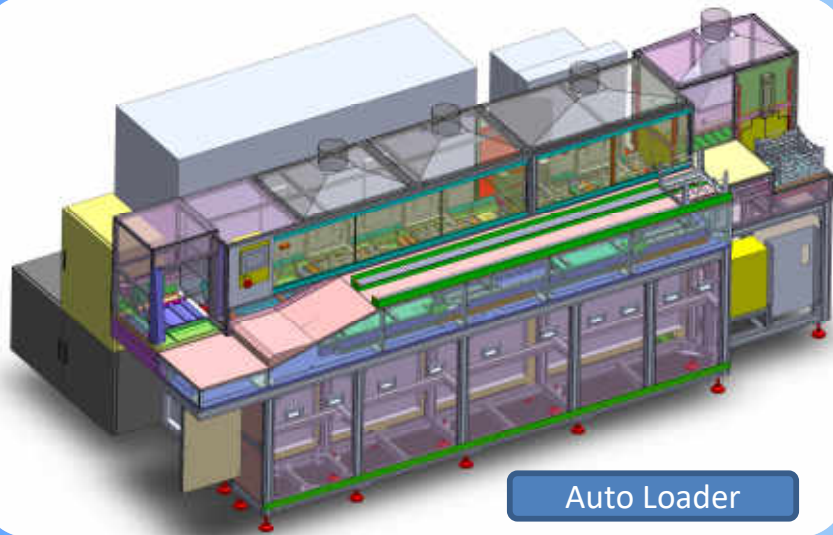
## MACHINE

### Auto Loader Tranfer

- Coverless
- Robot IAI
- Stepping Oriental Motor
- Conveyor Transfer Pallet
- Lift up-down

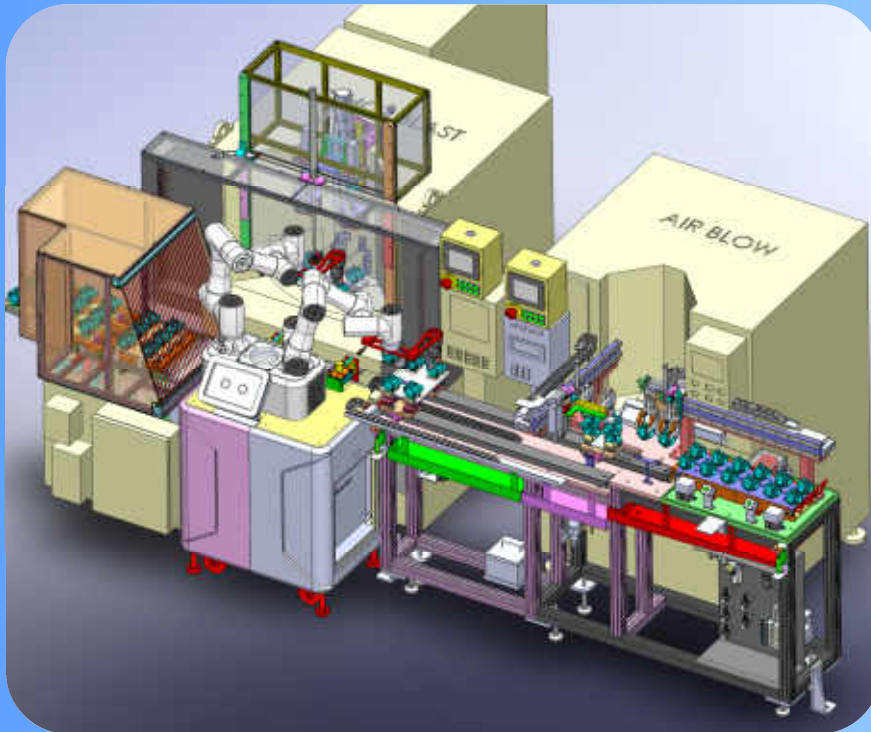


## MACHINE



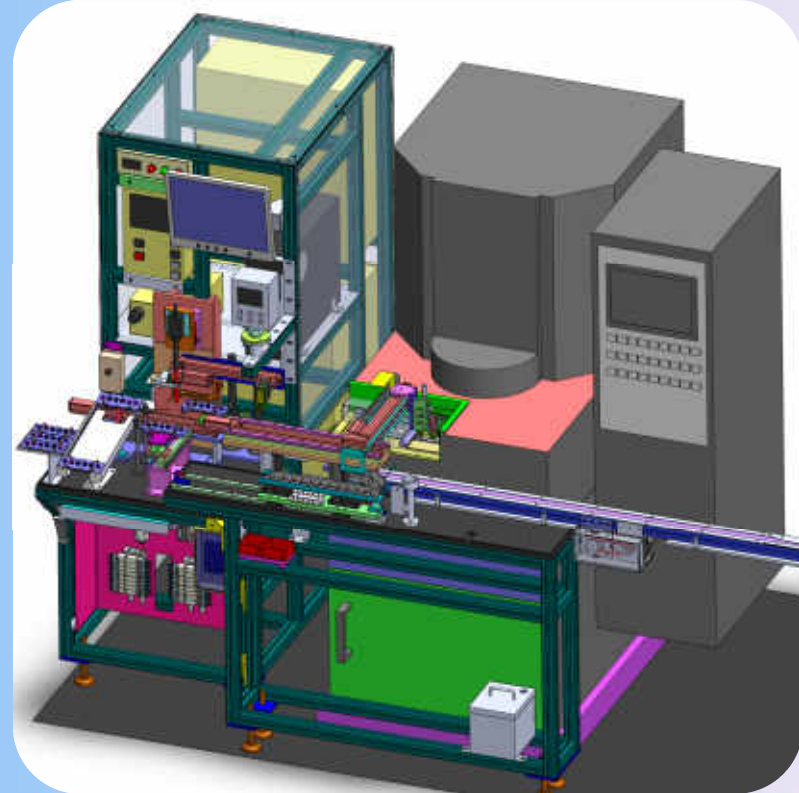
## MACHINE

Auto Loader by Cobot



- Cobot : Dobot
- Robot IAI
- Stepping Motor Oriental

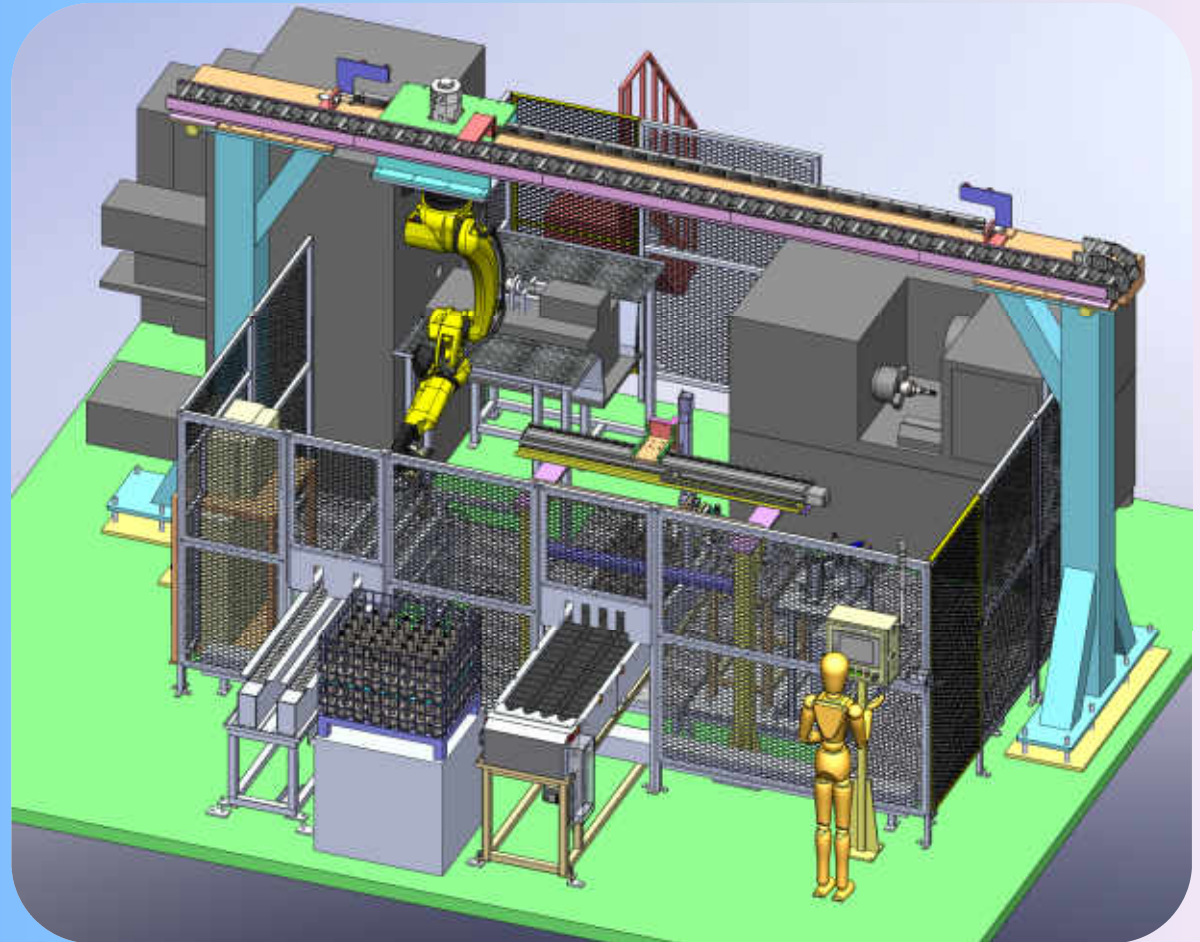
Auto Loader Conveyor



- Coverless
- Camera Visual KEYENCE
- Robot IAI
- Stepping Oriental Motor
- Conveyor Transfer Pallet

## Machine

- Robot : Fanuc
- Camera Keyence IV3
- Measuring Keyence TM-X5040
- Robot IAI
- Auto Marking
- Conveyor Transfer

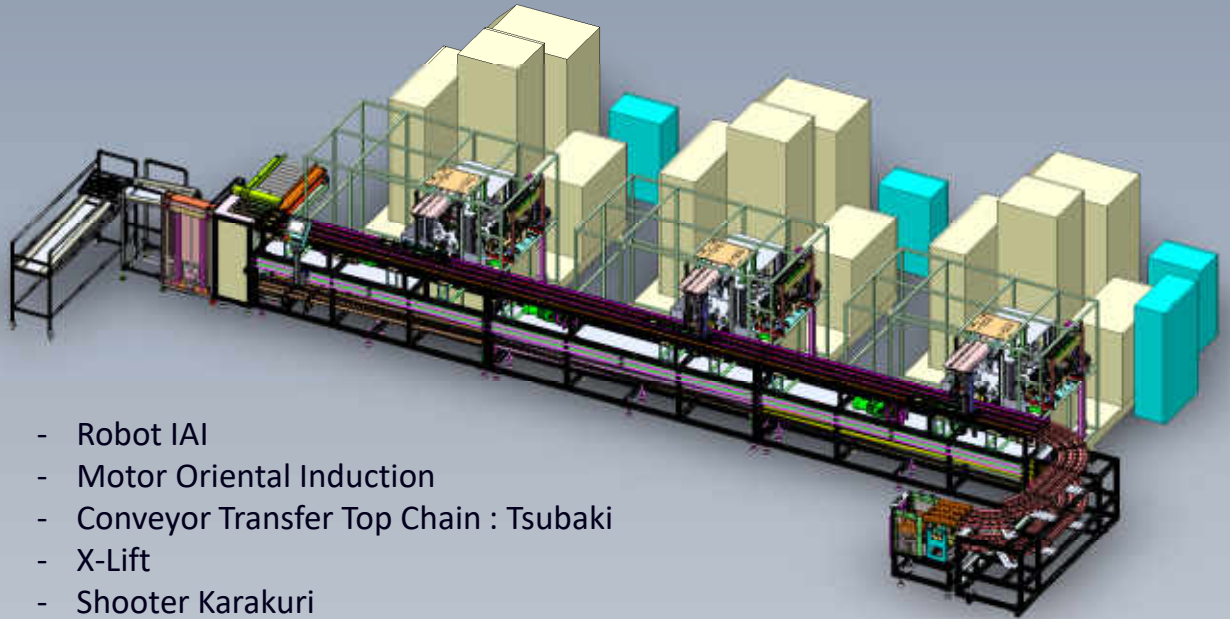


Fanuc Robot Loader,Dimension Check

## Machine



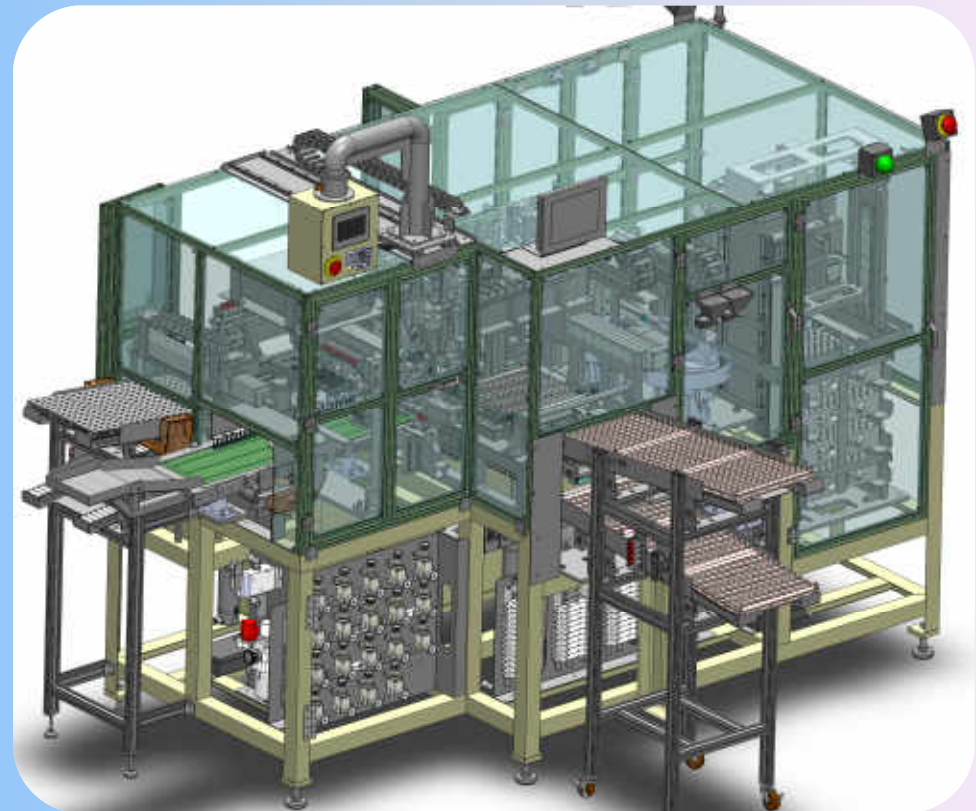
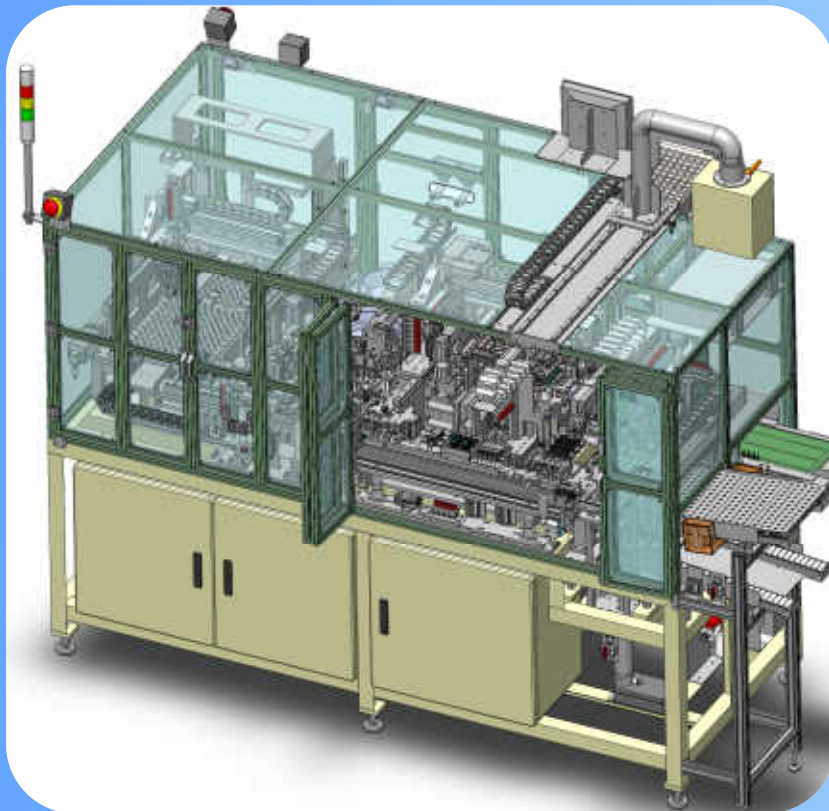
### Transfer & Auto Load Part



- Robot IAI
- Motor Oriental Induction
- Conveyor Transfer Top Chain : Tsubaki
- X-Lift
- Shooter Karakuri

## MACHINE

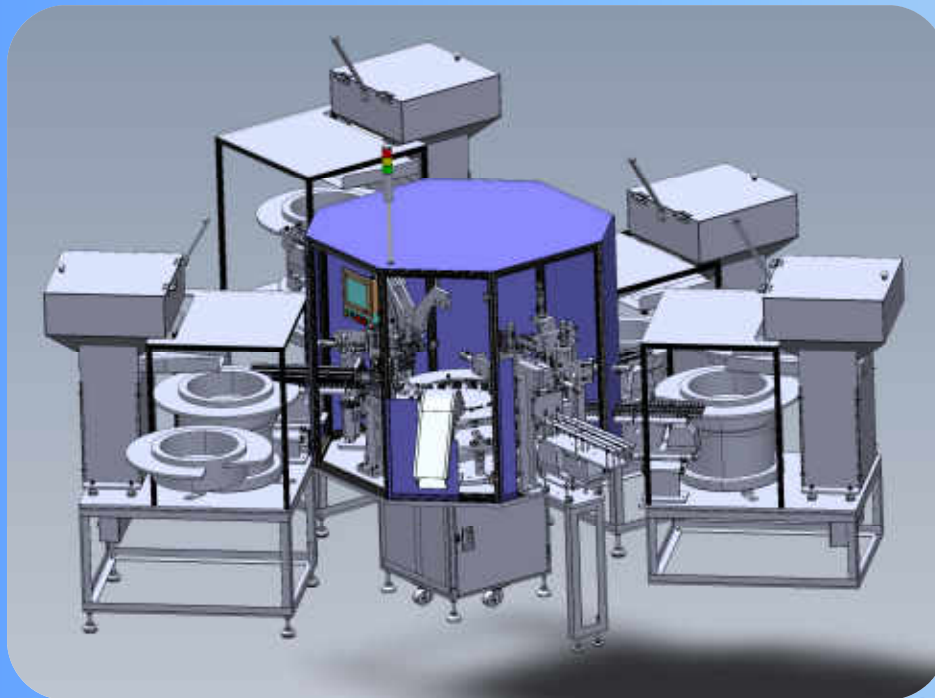
### Auto Assembly Part



- Camera Visual KEYENCE : CV
- Robot IAI
- Stepping Oriental Motor
- Conveyor Transfer
- Shooter Pallet
- Bowl Feeder : BFC

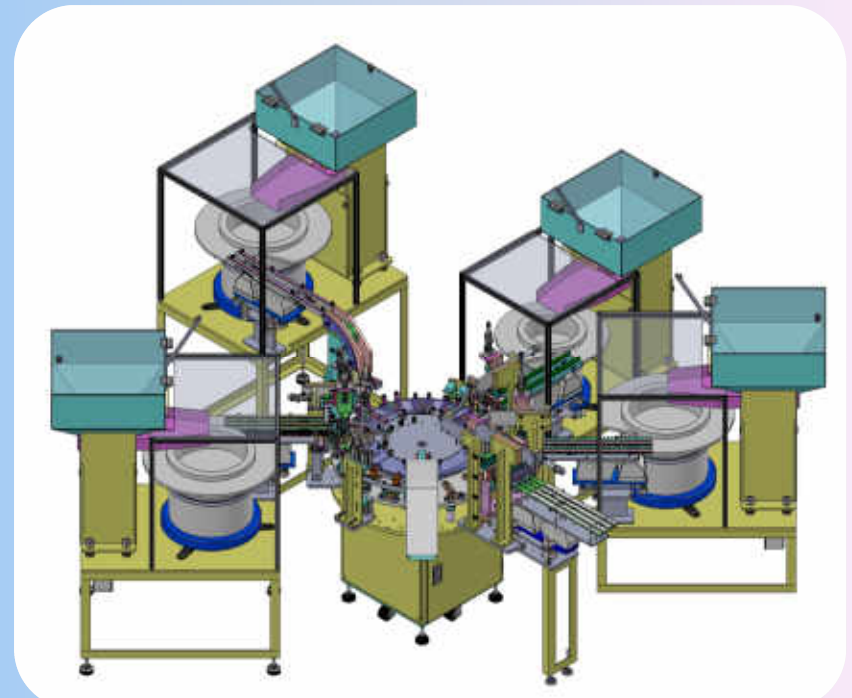
## MACHINE

Auto Assembly Part



- Cylinder Press
- Stepping Oriental Motor
- Bowl Feeder : BFC

Auto Assembly Part

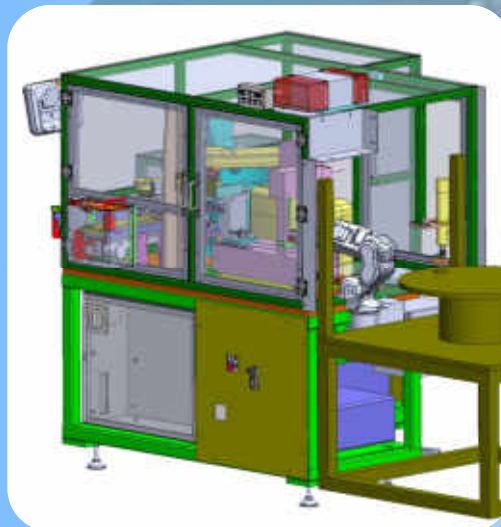


- Cylinder Press
- Stepping Oriental Motor
- Bowl Feeder : BFC

## Machine

Assembly Machine by Robot Nachi, Vision Check by Keyence

- Robot : Nachi
- Stepping Oriental Motor
- Bowl Feeder : BFC
- Conveyor : NKE
- Camera Keyence CA
- Dispenser : Musashi



## IOT : Network & Data storage

- Interpreting instruction data and print barcode
- Collecting data from each PLC
- Monitoring machine status



Barcode printer



Cilence/User



Ethernet/IP

PLC



- Part No. & Model
- Torque
- Angle
- Position

PLC



- Pressing force
- Distance
- Laser marking

PLC



- Part No. & Model
- Distance
- Load in & out

Field network



Barcode Reader

Operation Terminal

Nutrunner tool

Robo-Cylinder

Field network



Linear Scale Sensor

Laser Marker

Digital indicator

Absocoder Sensor

Loadcell

Field network



RFID Reader

Table Rotary

Laser Displacement Sensor

Robot Arm

Map

