FANCO

# FANCO PRECISION (M) SDN BHD

# FANCO PRECISION (M) SDN. BHD.

FANCO PRECISION, established since year 2004, the pre-eminent vendor in supplying customized precision parts & electronic devices majorly to semiconductor companies, particularly on transfer parts, trim & form tooling, automation system, mold equipment, inspection equipment and electronic items.

Over the years, we are specialized and focused to cater to the demand of semiconductor equipment & parts sourcing solutions.

FANCO PRECISION is proudly certified to meet the internationally recognized Quality Management System of ISO 9001:2015. In line with our certification, We are always passionate and ready to provide excellent reliable quality products or services and providing competitive values to you!

# Company Information

30 & 32, PERSIARAN PERINDUSTRIAN PENGKALAN 8, KAWASAN PERINDUSTRIAN PENGKALAN, 31500 IPOH, PERAK, MALAYSIA.

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+6019 – 513 8318

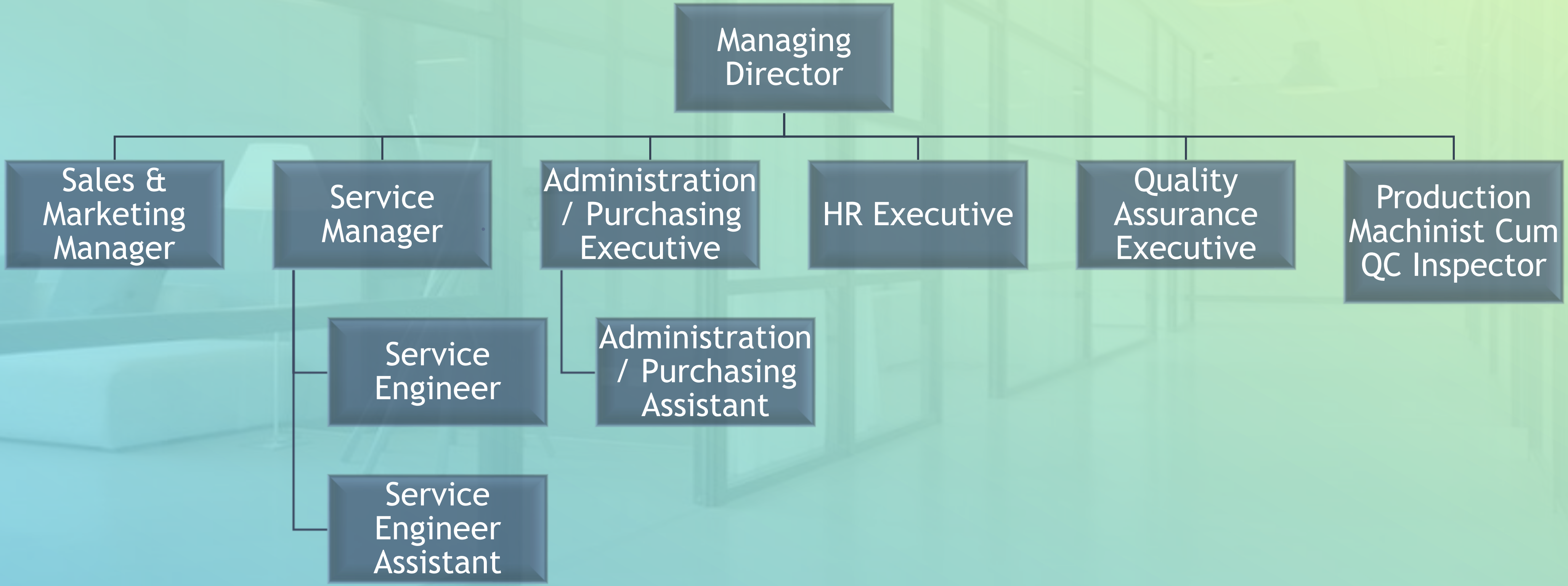
https://www.fanco-precision.com/

ymfan@fanco-precision.com
jessypong@fanco-precision.com
fancoprecision@gmail.com

ISO 9001: 2015 Certified Company

ISO 9001
CERTIFIED
UKAS
MANAGEMENT
SYSTEMS
8289
British Assessment Bureau
Certificate No.:2033755

# Organization Chart



- Managing Director
  - Sales & Marketing Manager
  - Service Manager
    - Service Engineer
    - Service Engineer Assistant
  - Administration / Purchasing Executive
    - Administration / Purchasing Assistant
  - HR Executive
  - Quality Assurance Executive
  - Production Machinist Cum QC Inspector

# Our Technology Partners

- FANCO PRECISION (M) Sdn. Bhd.
  - Sales & Marketing Manager
  - Service Manager
    - Service Engineer
    - Service Engineer Assistant
  - South Korea
    - R&D Design
    - Fabrication & Assembly
  - Malaysia ( Penang & Ipoh )
    - Cater Technology Transfer from Korea
      - R&D Design
    - Fabrication & Assembly
  - China
    - R&D Design
    - Fabrication & Assembly

# Quality Policy

FANCO PRECISION is committed to unveiling customers’ requirements, thereby satisfying them by achieving total customer satisfaction and surpassing their expectations so as to our partnership with our vendors and employees. In any collaboration, we always work together to deliver cost competitive, high quality, reliable products and excellence service to you!

# Our Vision, Mission & Value

- ✓ To be customer’s obvious choice by providing highly trusted and satisfied technology products and solutions.

**Vision**

- ✓ Highly Reliable Products
- ✓ Outstanding And Reliable Quality Products / Solutions
- ✓ Competitive Pricing
- ✓ Excellent Services
- ✓ Achieve Goals With Confidence And Assertiveness

**Mission**

- ✓ Excellence In Quality & Service
- ✓ Passion For Perfection
- ✓ Total Customer Satisfaction
- ✓ Respect
- ✓ Caring
- ✓ Collaboration

**Corporate Value**

# ISO 9001 : 2015 Certificate

British
Assessment
Bureau

Certification is conditional on maintaining the required performance standards throughout the certified period of registration
The British Assessment Bureau, 30 Tower View, Kings Hill, Kent, ME19 4UY

The management system of Certificate Number **2033755**

**FANCO PRECISION (M) SDN. BHD.**
38A-2 Lebuh Lapangan Siber 2, Bandar Cyber, 31350 Ipoh, Perak

has been assessed and certified as meeting the requirements of

**ISO 9001:2015**
for the following activities

1. Trading, Installation, Commission, Service And Maintenance Of Semiconductor Equipments.
2. Provision Of Machining Services For Metal Parts

Further clarifications regarding the scope of this certificate and the applicability of requirements may be obtained by consulting the certifier.

Valid from
**Initial Certification:** 26 March 2021
**Latest Issue:** 26 March 2022
**Expiry Date:** 25 March 2024
subject to annual assessments

UKAS
MANAGEMENT
SYSTEMS
8289

Authorised by

Mike Tims
Chief Executive Officer

www.british-assessment.co.uk

ISO 9001
CERTIFIED

UKAS
MANAGEMENT
SYSTEMS
8289

British Assessment Bureau

**Certificate No.:2033755**

# OUR BUSINESS ROADMAP

**2020**

Generated Innovative High-Tech Auto Packer Machine Which Allows Customization In Accordance To Customer Needs & Requirements

**2021**

The Dominant Leader Of Technology Solution Provider in Semiconductor Industry

**2022**

Business Expansion - Production Assembly House

**2023**

The Renowned Semiconductor Advanced Automation Machinery Supplier

**2030**

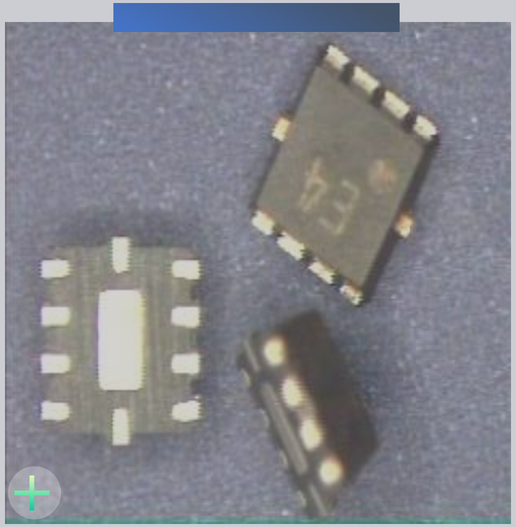
Turning To A Listed Company

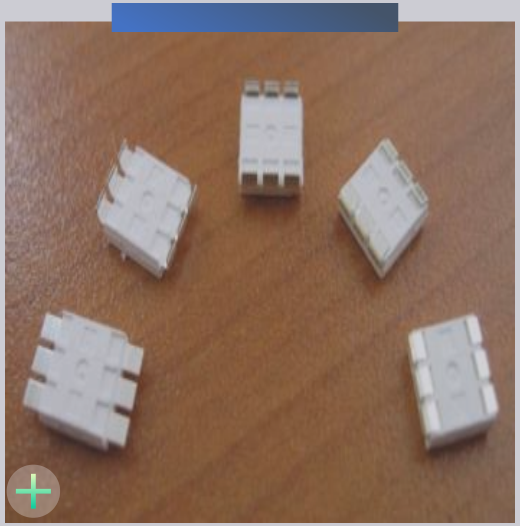
# Authorized Partner Of SSOTRON Korea

# Semiconductor Automation System & Accessories

Authorized Partner of SSOTRON Korea

( www.ssotron.co.kr )





# Semiconductor Automation System & Accessories

Authorized Partner of SSOTRON Korea

( www.ssotron.co.kr )

Fully Auto Trim / Form System

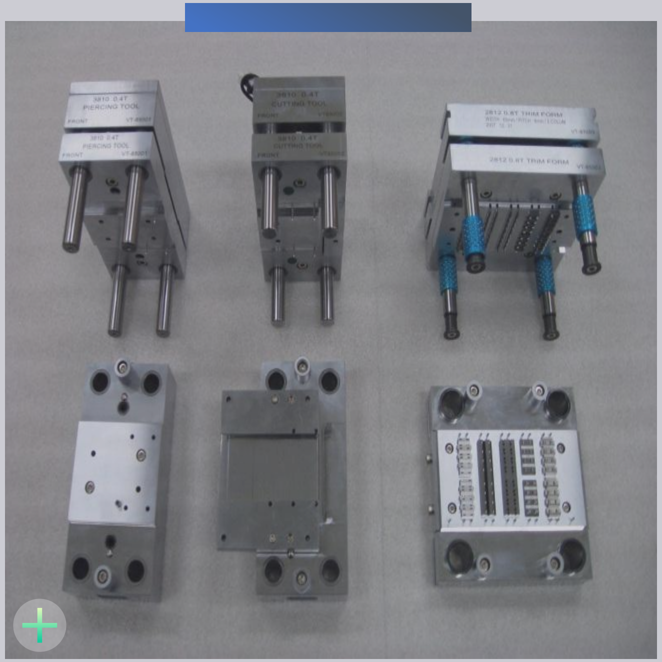
Fully Auto Trimming / Forming & Singulation System

Piercing And Cutting Tool With Vision

# Semiconductor Automation System & Accessories

Authorized Partner of SSOTRON Korea

( www.ssotron.co.kr )



Module & Die Set

Tray Unloading System

Master Die Set With Tools

# Authorized Partner Of GS Tech Co., Ltd

# Mold Chase & Accessories

Authorized Partner of GS Tech Co. Ltd Korea

( www.gstech.co.kr )

Auto Mold Die

Mold Parts

Conventional Mold

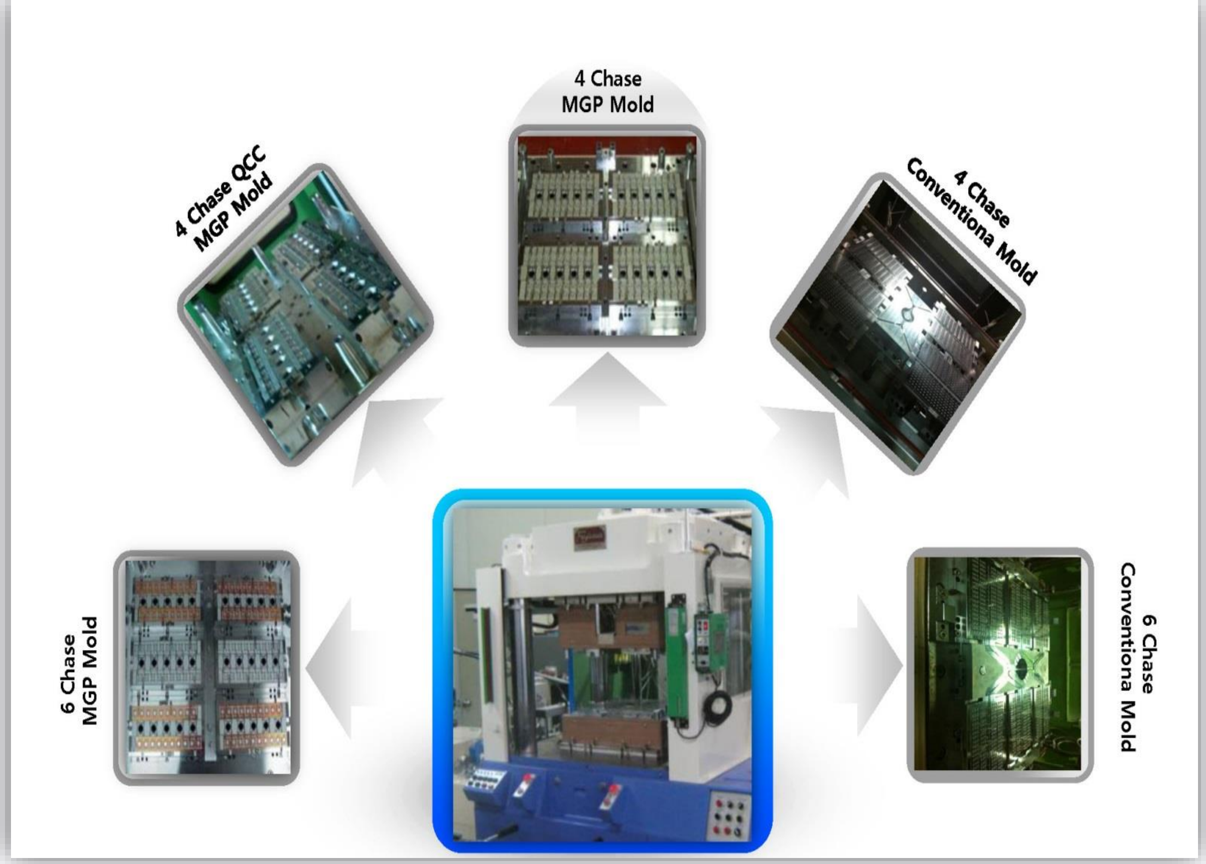
Retractable E-Pins Mold

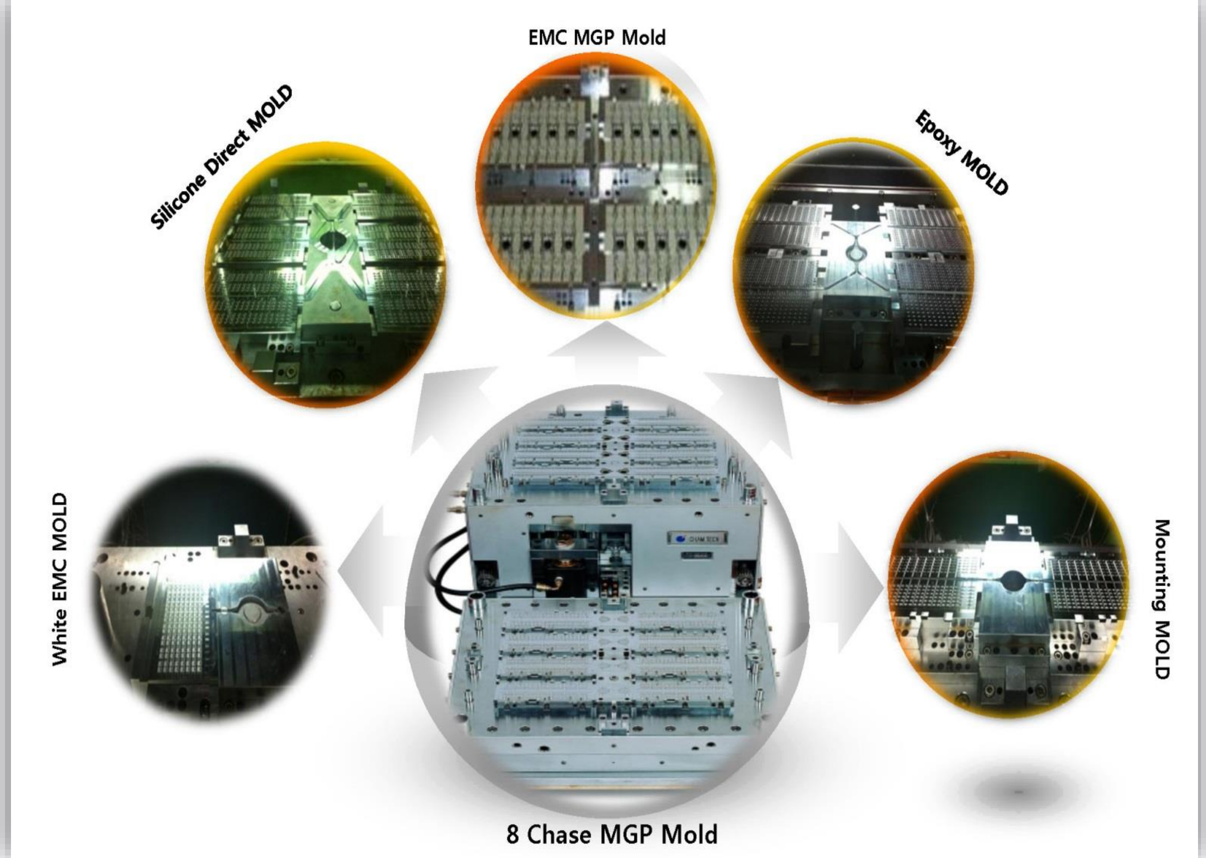
Semi MDP Mold

GS TECH KOREA 지에스테크

# Mold Chase & Accessories

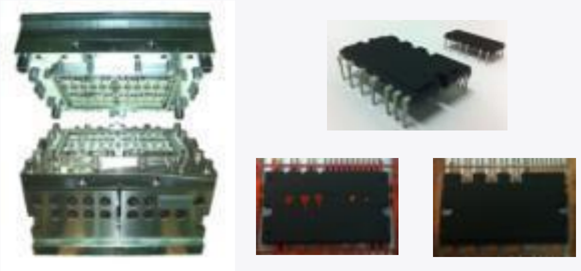
Authorized Partner of GS Tech Co. Ltd Korea
( www.gstech.co.kr )





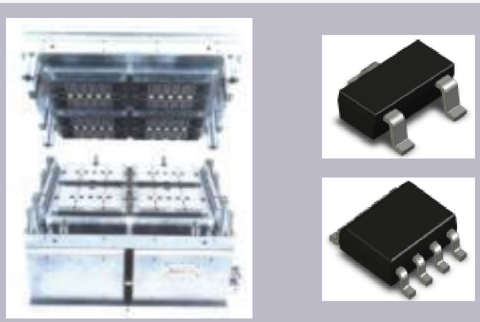
# Mold Chase & Accessories

Authorized Partner of GS Tech Co. Ltd Korea
( www.gstech.co.kr )



## Retract + Vacuum Mold

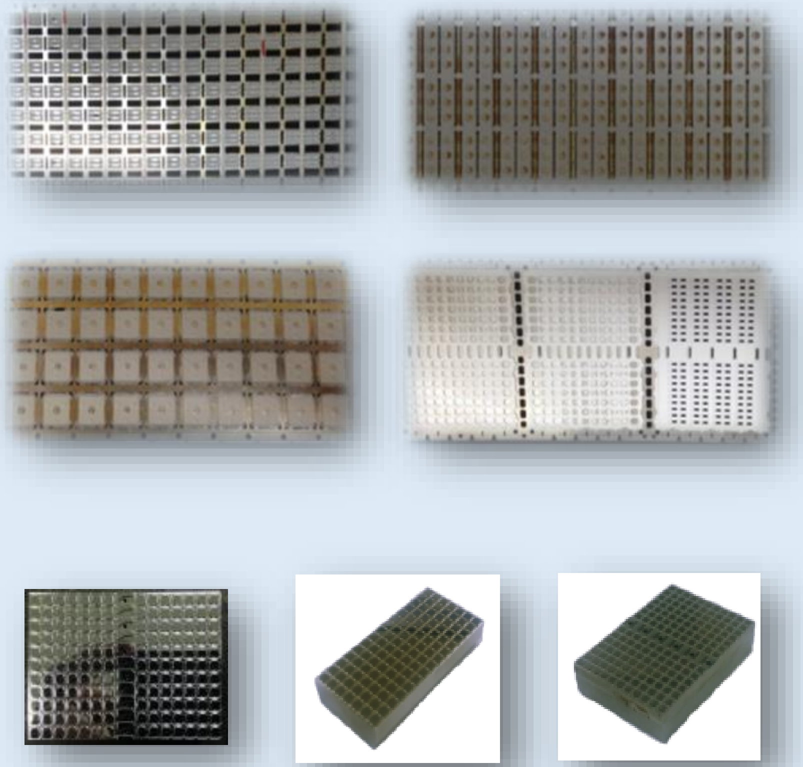
- Apply to Module Package & LED
- Minimum void by vacuum equipment
- Required high quality package
- Shot distance for isolation by retract equipment



## M.G.P Mold

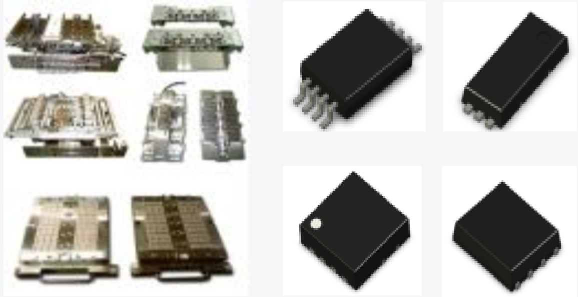
- Apply to small package like SOT, SC
- Equalize performance with auto mold
- Used to mini tablet emc
- Molding flow same as auto mold

## E.D.M Polishing



## Semi-M.G.P Mold

- Apply to discrete package (low cost pkg)
- Cost efficient compared to conventional mold
- Improve quality by multi pot (2~4 pot)
- Need to pre heater m/c



## Auto Mold & Conversion Kit

- Convert other device package Towa, Dai-ichi, Yamada, ASM systems
- Low cost efficient convert price

# Authorized Partner Of Shenzhen Tensun Precision Equipment Co., Ltd.

# Precision Dispensing Products

Authorized Partner of Shenzhen Tensun Precision Equipment Co., Ltd.
( http://en.tensun.cn/ )

Standard high precision dispensing machine
**Sherpa91N**

Dual head dispensing machine
**Sherpa93**

Dual station dispensing machine
**Sherpa83**

5-Axis linkage dispensing machine
**FD300**

## Application Processes

- Semiconductor system level packaging / advanced package dispensing
- SMT / PCB / FPC dispensing
- CCM / Vibrator / Speaker etc. precision parts dispensing and assembly
- Mini-LED Lens / Dam / Fill dispensing
- Curved screen dispensing & assembly

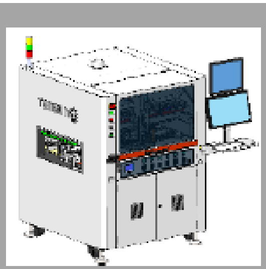
Dispensing System

# Precision Dispensing Products

Authorized Partner of Shenzhen Tensun Precision Equipment Co., Ltd.
( http://en.tensun.cn/ )

| | Wafer | Substrate | Lead frame | Panel |
|---|---|---|---|---|
| Underfill | Sherpa91N<br>+Piezo valve(Jetting) | Sherpa91N/900<br>+Piezo valve(Jetting) | - | Sherpa900<br>+Piezo valve(Jetting) |
| Dam & Fill | Sherpa91N<br>+Piezo valve(Jetting) | Sherpa91N/900<br>+Piezo valve(Jetting)/Auger valve(Contact) | - | Sherpa900<br>+Piezo valve(Jetting)/Auger valve(Contact) |
| Glob Top | - | Sherpa91N/900<br>+Piezo valve(Jetting) | Sherpa91N<br>+Piezo valve(Jetting) | Sherpa900<br>+Piezo valve(Jetting) |
| Solder/Silver Dot Dispensing | Sherpa91N<br>+Piezo valve(Customization for solder paste/Silver jetting) | Sherpa700<br>+Piezo valve(Customization for solder paste/Silver jetting) | Sherpa700<br>+Piezo valve(Customization for solder paste/Silver jetting) | Sherpa900<br>+Piezo valve(Customization for solder paste/Silver jetting) |
| Solder Line Dispensing | - | Sherpa83<br>+Dispensing controller(Contact) | - | - |
| Lid Attach | - | LA1200<br>+Auger valve(Contact) | - | - |
| Spray | Sherpa91N+Spray valve | - | Sherpa65+Spray valve | - |

Sherpa91N

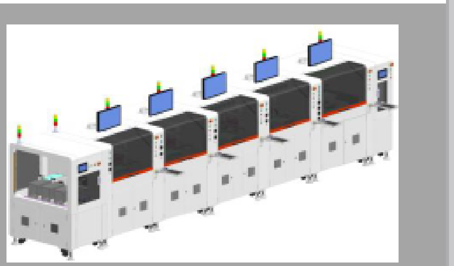


Sherpa900

Sherpa65

Sherpa700

Sherpa83



LA1200

# Precision Dispensing Products

Authorized Partner of Shenzhen Tensun Precision Equipment Co., Ltd.
( http://en.tensun.cn/ )

Multi-function piezo jet valve **JVS96**

Solder ultramicro peristaltic dispensing valve **MSS91**

Screw dispensing valve **SVS81**

Dual components screw dispensing valve **DSP900**

Volumetric dispensing valve **SPP-H9**

## Advantages

- Meet the requirements of Underfill, UV, Solder Paste, Silver Glue and other dispensing process
- Developed independently
- piezo jet valve , Solder ultramicro peristaltic dispensing valve , Screw dispensing valve , Volumetric dispensing valve etc.
- Minimum dispensing diameter is 100μm, Minimum dispensing volume is 0.5nl
- Dispensing accuracy 1mg±5%@CPK 1.33

Self Developed Valve

Tensun

# Precision Dispensing Products

Authorized Partner of Shenzhen Tensun Precision Equipment Co., Ltd.
( http://en.tensun.cn/ )

**Auger Valve SVS81**

Viscosity range: 20000~2000000cps
Maximum speed: 1200rpm
Glue accuracy: 5mg±5% CPK≥1.33

**Piezo Valve JVS91**

Viscosity range: 0~200000cps
Maximum jetting frequency: 1500Hz
Glue accuracy: 1mg±5% CPK≥1.66

**Piezo valve JVS100**
**(Customization for solder paste/Silver dispensing)**

Viscosity range: 20000~100000cps
Maximum jetting frequency: 300Hz
Glue accuracy: 3mg±5% CPK≥1.33

**Volumetric metering valve SPP-H9**

Viscosity range: 0~50000cps
Minimum volume resolution: 0.000177ul
Glue volume accuracy: ≤±0.0088ul

**Spray valve TS-787**

Viscosity range: 0~1000cps
Minimum line width: 3mm
Glue accuracy: 5mg±10% CPK≥1.33

Dispensing Valve Summary (Tensun R&D)

# Precision Dicing Products

Authorized Partner of Shenzhen Tensun Precision Equipment Co., Ltd.
( http://en.tensun.cn/ )

ADS2100

SDS1220

SDS1210

# Precision Dicing Products

Authorized Partner of Shenzhen Tensun Precision Equipment Co., Ltd.
( http://en.tensun.cn/ )

- Application : Wafer, QFN, MEMS, SIP, PCB, EMC, Wire Holder, Glass, Ceramics
- Compatible with 8-12 round, 200x300 square processing sizes
- High precision BBD detection function, minimum detection capacity of 0.5x0.5mm
- High precision NCS height measurement, control accuracy within 2μm
- Core vision and algorithms

# Authorized Partner Of Shenzhen Shenkeda Semiconductor Technology Co., Ltd.

# Test Handlers, Tray Taping & Auto Reel Change

Authorized Partner of Shenzhen Shenkeda Semiconductor Technology Co., Ltd
(https://en.szskd.com/ )

- DDT Turret Test Handler
- Dual Track Test Handler
- Pick And Place Test Handler
- Gravity Test Handler
- Tray Taping Machine
- Automatic Reel Change Machine

# Test Handler

Authorized Partner of Shenzhen Shenkeda Semiconductor Technology Co., Ltd
(https://en.szskd.com/ )

Turret Test Handler

Dual Track Test Handler

Pick And Place Test Handler

Gravity Test Handler

# Tray Taping & Auto Reel Change Machine

Authorized Partner of Shenzhen Shenkeda Semiconductor Technology Co., Ltd

(https://en.szskd.com/ )

Tray Taping Machine

Automatic Reel Change Machine

# Authorized Partner of Precision Intelligent Technology Co., Ltd.

# Die Attach Equipment

Authorized Partner of Precision Intelligent Technology Co., Ltd.
( www.precisioncn.com )

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Solutions** | Semiconductor Packaging | Photonics Packaging | MiniLED Packaging | Power Devices Packaging | SiC/GaN Packaging | Memory Packaging | Advanced Packaging | Inductor Winding |
| **Products** | IC Linear High Precision Die Attach | Ultra-high precision die attach | XBonder Ultra-high Speed Thorn Die Attach | Clip Bonder High-speed Clip Bonding System | Power Module Die Bonder | Thin Die Laminate Die Bonder | Flip Chip Die Bonder | High Precision Winding Machine |
| **Core Functional Module** | Motion controller | Linear Motor | Servo drive controller | Machine Vision | | | | |

PrecisioNext 普莱信智能

# DA1201 IC Linear High Precision Die Attach

Authorized Partner of Precision Intelligent Technology Co., Ltd.
( www.precisioncn.com )

## Advantages

- Wafer size: 6"- 12";
- Dual dispensing system;
- High-precision linear driven bond head;
- Support DAF function;
- Multifunction work table, suitable for different kinds of lead frames & substrates;
- High-precision wafer table with highly accurate die rotation system and motorized wafer expansion system;
- Intelligent dispensing control system to realize precision glue volume control;
- Missing die detection and re-picking function;
- Programmable Pick / Bond Force;
- Customization for special design is also available.

PrecisioNext
普莱信智能

# DA1201FC Flip Chip And Die Attach

Authorized Partner of Precision Intelligent Technology Co., Ltd.
( www.precisioncn.com )

## Advantages

- Specially designed for flip chip devices with low pin count, DA1201FC provides a fully automatic high-speed flip chip solution for various devices, such as SOIC, SO, QFN, BGA, LGA, etc. At the same time, it is equipped with die attach system;
- High-speed and high precision die bonding capability;
- MS Windows® operating system and flexible connectivity;
- Flip chip and die bonding in one machine - the conversion between the two processes is simple and easy;
- Comprehensive inspection system;
- Excellent X/Y placement accuracy;
- Flip-chip mode/high-precision die attach mode: ±15μm@3σ;
- Die attach mode: ±25μm@3σ;
- High density lead frame handling capability.

# DA801 IC Linear High Precision Die Attach

Authorized Partner of Precision Intelligent Technology Co., Ltd.
( www.precisioncn.com )

## Advantages

- Wafer size: 6" - 8";
- Dual dispensing system;
- High-precision linear driven bond head;
- Support DAF function;
- Multifunction work table, suitable for different kinds of lead frames & substrates;
- High-precision wafer table with highly accurate die rotation system and motorized wafer expansion system;
- Intelligent dispensing control system to realize precision glue volume control;
- Missing die detection and re-picking function;
- Customization for special design is also available.

# High Speed Clip Bonding System

Authorized Partner of Precision Intelligent Technology Co., Ltd.
( www.precisioncn.com )

**One-stop clip bonding solution**

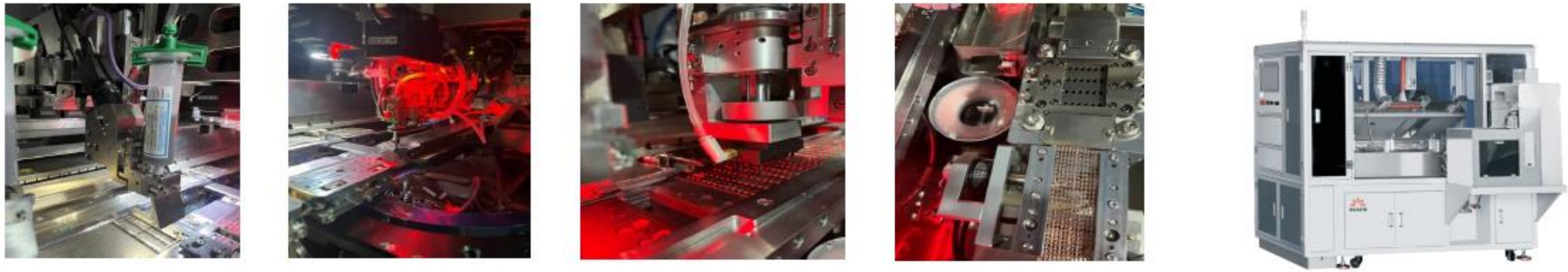
- From die bonding, clip bonding to reflow process.

**Innovative machine design**

- Patented bond head design.
- Array suction clip bonding process.
- Multi-head independent dispensing process.
- Intelligent reflow process.
- Easy to use conversion.

**Flexible configuration**

- 6-12" wafer.
- Support different die size



# CB930 High Speed Clip Bonding Machine

Authorized Partner of Precision Intelligent Technology Co., Ltd.
( www.precisioncn.com )

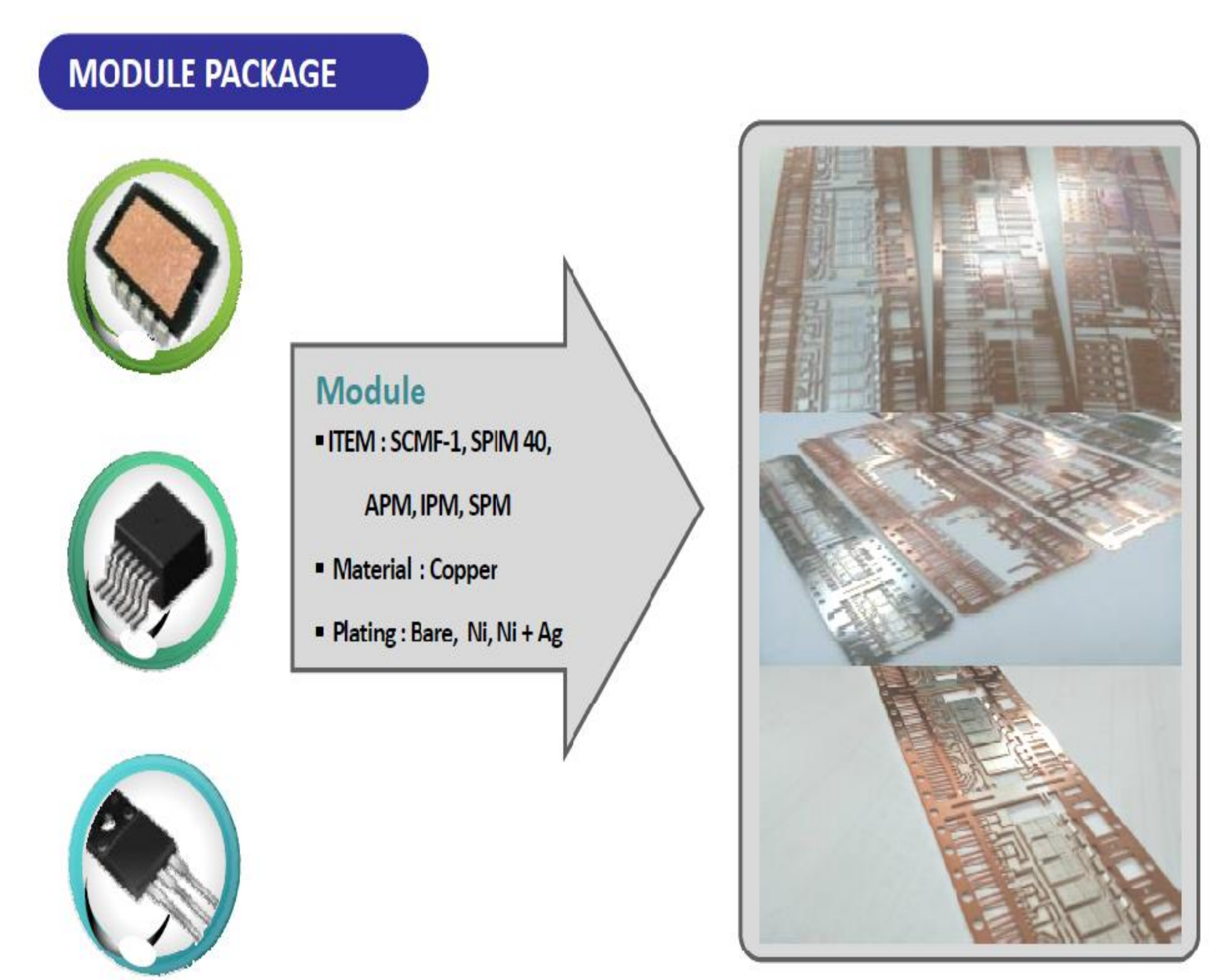
## Advantages

- Placement accuracy: ±50μm @3σ, theta placement accuracy: ±3°@3σ;
- Up to 20Clips/ Cycle;
- Prebond & Posbond function;
- Solder patch & solder paste inspection function;
- High precision linear drive die bond head;
- High precision clip punching system;
- The multi dispensing independent control system provides more accurate glue control, equipped with glue detection, with automatic glue filling function;
- Multiple configurations meet various market demands, as well as customization according to special demands;
- Freely match various types of reflow equipment.

Authorized Partner Of TSP Co., Ltd.

# Stamping & Etching L/F Housing

Authorized Partner of TSP Korea
( www.tsp.co.kr )



**MODULE PACKAGE**

**Module**
- ITEM : SCMF-1, SPIM 40,
  APM, IPM, SPM
- Material : Copper
- Plating : Bare, Ni, Ni + Ag

**POWER PACKAGE**

**Automotive Type**
- ITEM : TO-220/263-3L, TO-247-3L
- Material : Copper
- Plating : Bare, Ni, Ni + Ag

**Commercial Type**

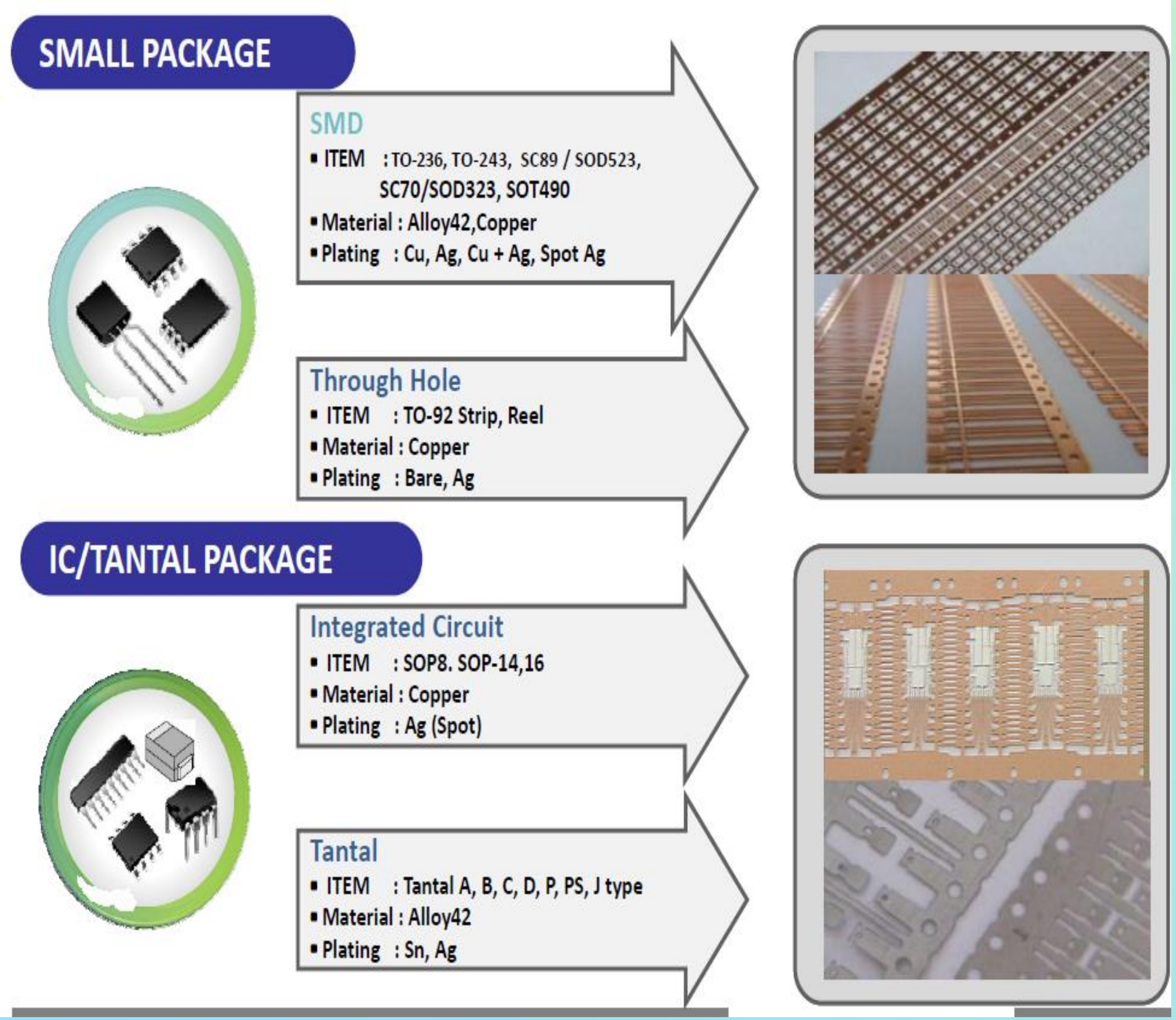
**Conventional**
- Item : TO-220-2/3L, TO-263-3L
  TO-3P, TO-247, TO-3PF
- Material : Copper
- Plating : Bare, Ni, Ni + Ag

**Matrix**
- Item : D-Pak matrix, TO-252 (D/I-PAK)
- Material : Copper
- Plating : Bare, Ni

**IDF**
- Item : TO-220
- Material : Copper
- Plating : Bare, Ni

# Stamping & Etching L/F Housing

Authorized Partner of TSP Korea
( www.tsp.co.kr )



**SMALL PACKAGE**

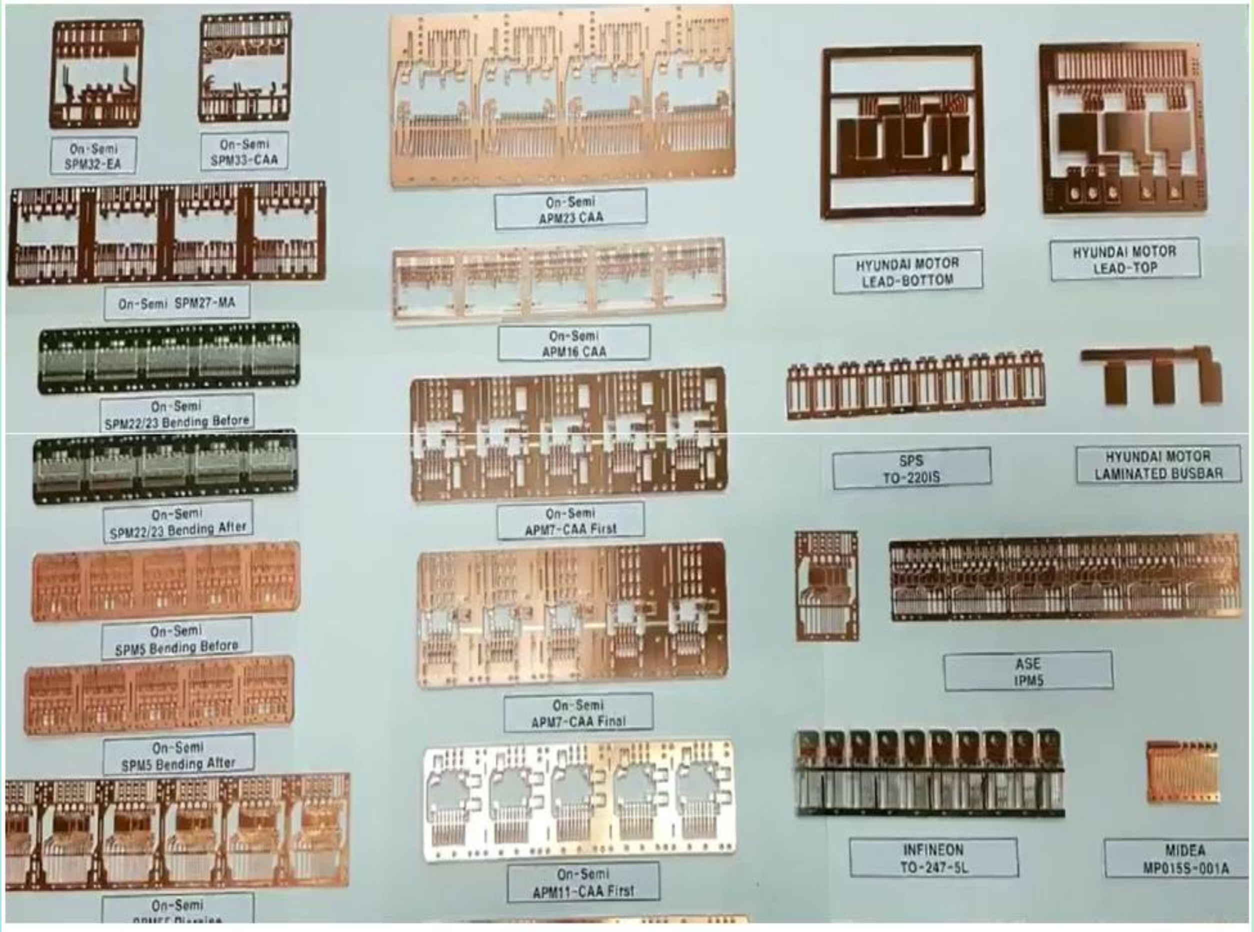
**SMD**
- ITEM : TO-236, TO-243, SC89 / SOD523, SC70/SOD323, SOT490
- Material : Alloy42,Copper
- Plating : Cu, Ag, Cu + Ag, Spot Ag

**Through Hole**
- ITEM : TO-92 Strip, Reel
- Material : Copper
- Plating : Bare, Ag

**IC/TANTAL PACKAGE**

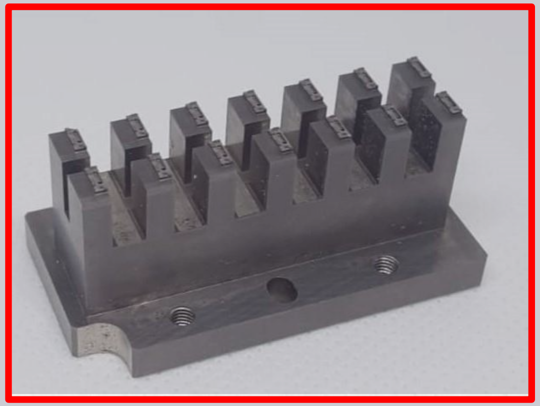
**Integrated Circuit**
- ITEM : SOP8. SOP-14,16
- Material : Copper
- Plating : Ag (Spot)

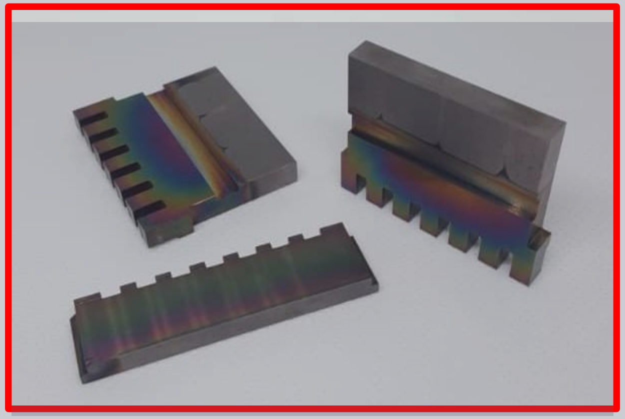
**Tantal**
- ITEM : Tantal A, B, C, D, P, PS, J type
- Material : Alloy42
- Plating : Sn, Ag



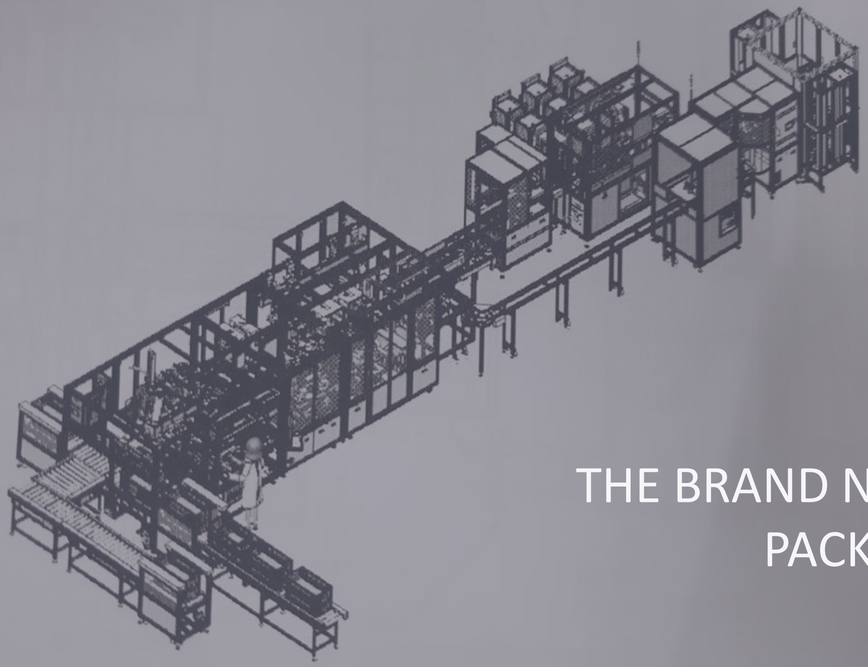
Samples of Experience Devices

# High Precision Piece Parts





# Auto Reel Packer Machine



THE BRAND NEW ADVANCED AUTO PACKER MACHINE

Custom-made available as per your industrial requirement

**A brand new advanced auto packer machine**, where thoughts and ideas are originated from the Director of FANCO PRECISION , allows you to flexibly customize your auto packer machine just right to your industrial needs and requirements!

This high-tech automation machine, aiming at innovation for new generation of smart industrial factory, significantly helps industries to move forward towards Industrial 4.0, but also empowers customers to become more sustainable, profitable across operations, maximize asset, and with higher production performance!

Auto-projects are currently on-going & it’s a trend now in owing your unique automation machinery!

# Auto Reel Packer Machine


Product- Reel to be pack


Moisture-Barrier Bag


Vacuum Pack Reel to MBB

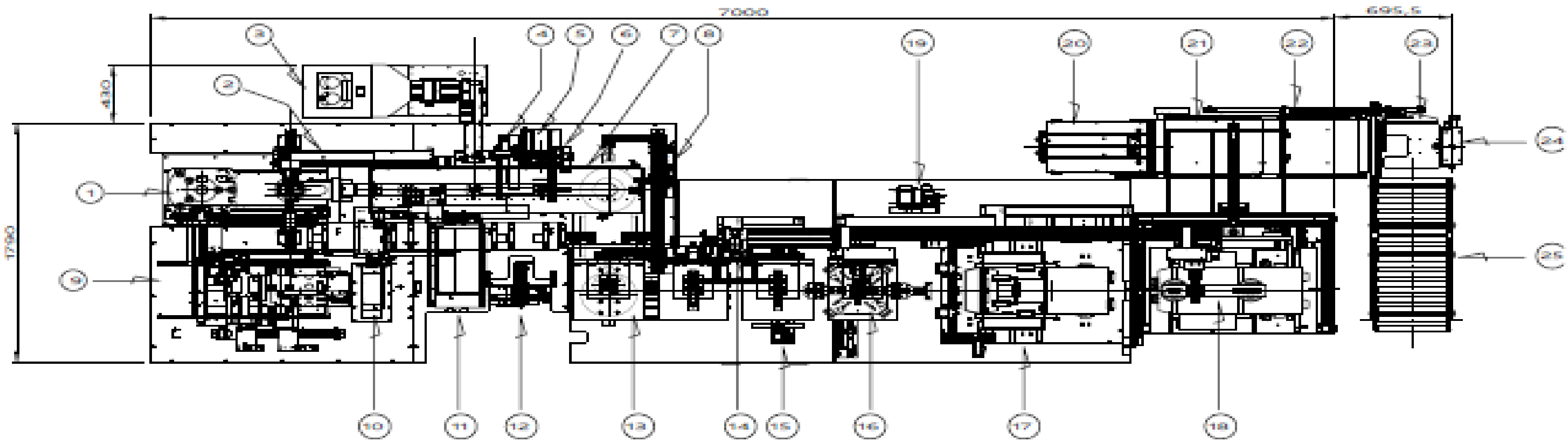

Carton Box Folding


Packing Complete

# Auto Reel Packer Machine

HIC and Silica Gel to be insert into Moisture Barrier Bag (MBB)

# Auto Reel Packer Machine Layout

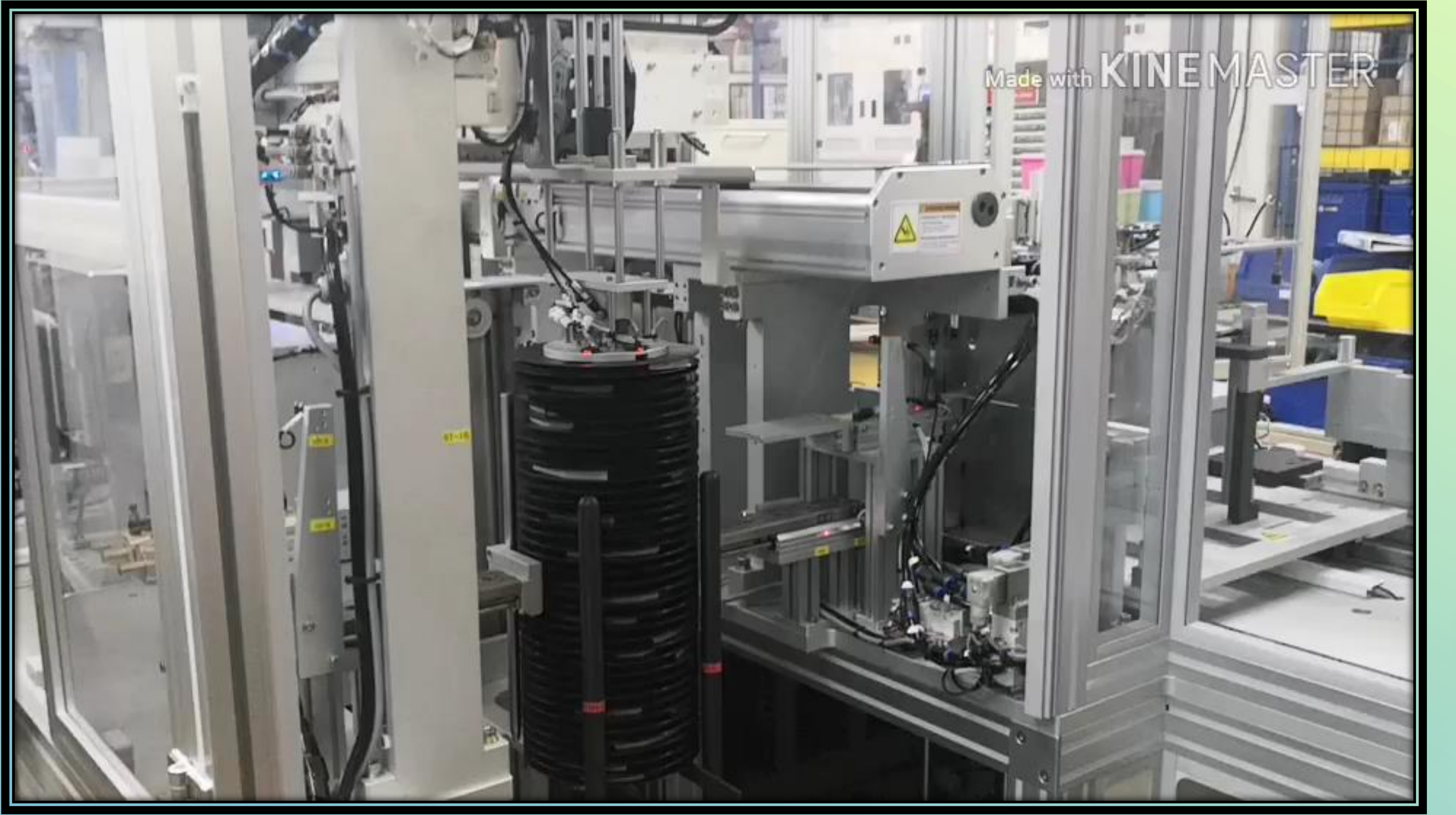


AUTO PACKING MACHINE

LEGEND

1) REEL LOADER (STACKED)
2) REEL PICK AND PLACE
3) SELICA GEL LOADER
4) SELICA GEL PICK AND PLACE
5) HIC STICKER LOADER MAGAZINE
6) HIC PICK AND PLACE
7) REEL WALKING BEAM
8) REEL INSERT PUSHER
9) MBB LOADER WITH PICK & PLACE
10) MBB SINGULATE STATION
11) LABEL PRINTER
12) LABEL DISPENSER
13) REEL PUSH IN STATION WITH MBB
14) VACUUM & HEAT SEALING
15) MBB WITH REEL ROTATE MODULE
16) LEAK CHECK & PREFOLD STATION
17) BOX FOLDING STATION
18) CARTON BOX LOADER
19) LABEL PRINTER FOR FOLDED BOX
20) PRIMARY CONVEYOR FOR BOX LABELING
21) BOX OFFLOING CONVEYOR
22) BOX OFF LOADING PUSHER
23) BOX STACKED UP OFF LOAD PUSHER
24) STACKED BOX ELEVATOR
25) FINISHED GOODS OFF LOAD CONVEYOR

# Auto Reel Packer Demo Machine



# THANK YOU

**FANCO PRECISION (M) SDN BHD**

30 & 32, PESIARAN PERINDUSTRIAN PENGKALAN 8,
KAWASAN PERINDUSTRIAN PENGKALAN, 31500
IPOH, PERAK, MALAYSIA.

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EMAIL: ymfan@fanco-precision.com