

ELECSYS
MANUFACTURING CORPORATION



WELCOME

TO

ELECSYS
MANUFACTURING CORPORATION



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COMPANY BACKGROUND



Since its inception, Electronic Systems Manufacturing Corp. (ElecSys MFG) has developed an outstanding reputation for customer service, on time delivery and producing high quality products at very competitive prices. We are able to provide consignment and turnkey manufacturing solutions for through hole and surface mount assemblies, testing and right through to complete box builds.

When you work with Electronic Systems Manufacturing Corp (ElecSys MFG), you really do work with us. Creating working partnerships with our customers enables us to better meet their individual needs while delivering products that exceed their expectations. We offer the skills and expertise of much larger contract manufacturers with the flexibility, service and attention to detail.

We understand that at times Engineering Change orders need to be applied to product that is already on the production floor or that some rework may be required for various reasons. Electronic Systems Manufacturing Corp (ElecSys MFG) are more than happy to assist in this area giving our customer's every opportunity to achieve their goal.

Our experienced staff with over 30 years' experience in the manufacturing of electronic assemblies offer assistance in providing design and manufacturing solutions for new product introduction (NPI), Limited Pilot Production (LPP) all the way to mass production. We understand that not all customers have high volume and as such accommodate low and medium volumes also. Electronic Systems Manufacturing Corp (ElecSys MFG) as standard practise will offer recommendations for manufacturing cost reductions. This will ensure that all our customers' products are manufactured not only at the highest quality but also for the best possible price.

REGISTRATION & CERTIFICATION



MEDICAL DEVICE
MANAGEMENT
SYSTEM





OUR MISSION

Our mission is to exceed our customer's expectations by providing the highest quality products with the most competitive prices in a timely manner.

OUR VISION

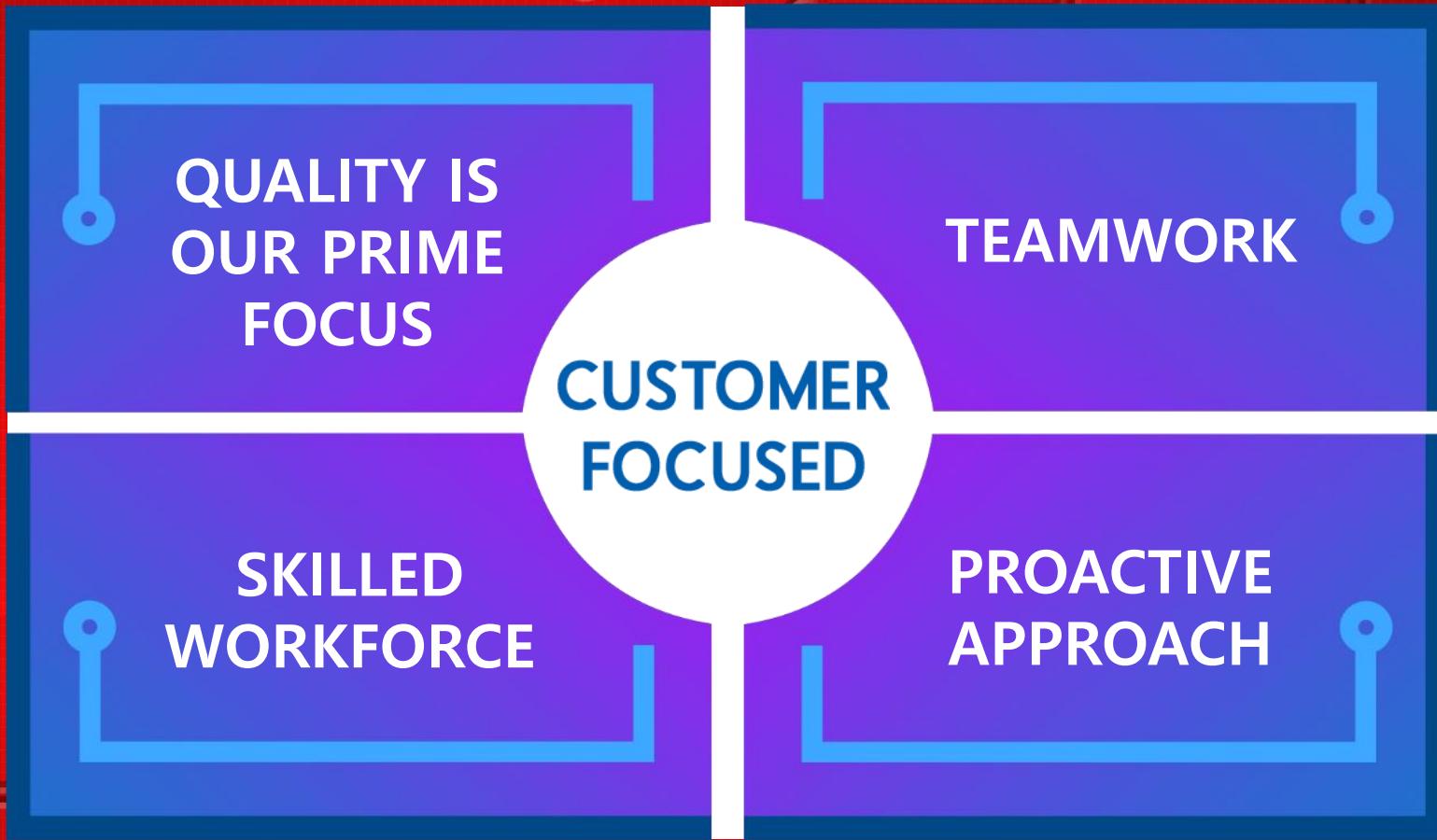
As a world-class electronic manufacturing company, our vision is not to be the biggest contract manufacturer but one of the best with leading edge technology as a standard while not forgetting our roots.

QUALITY POLICY

Client focus is the approach of Elecsys to
Upgrade services and achieved product requirements;
Sustain continual improvement of the Quality Management System by providing necessary trainings; Implement
Time bound to meet delivery; Use
OppORTunities and strength to advance and ensure continuous improvement; We
Measure performance to guarantee customer satisfaction;
EnHance quality awareness of employees at all levels of the organization;
Result driven to ensure customers, shareholders and employees have their expectations exceeded while complying to related statutory and regulatory requirements.



PRINCIPLES AND VALUES



GREAT
CUSTOMER
SERVICE

PRODUCT
QUALITY
CERTIFIED

ENGINEERED
TECHNOLOGY

THE REAL
COST

RANGE OF SERVICES

NEW PRODUCT
INTRODUCTION

02

PRINTED CIRCUIT
BOARD ASSEMBLY

03

FINAL
ASSEMBLY

07

DELIVERY &
CUSTOMER
SATISFACTION

06

PACKAGING

05

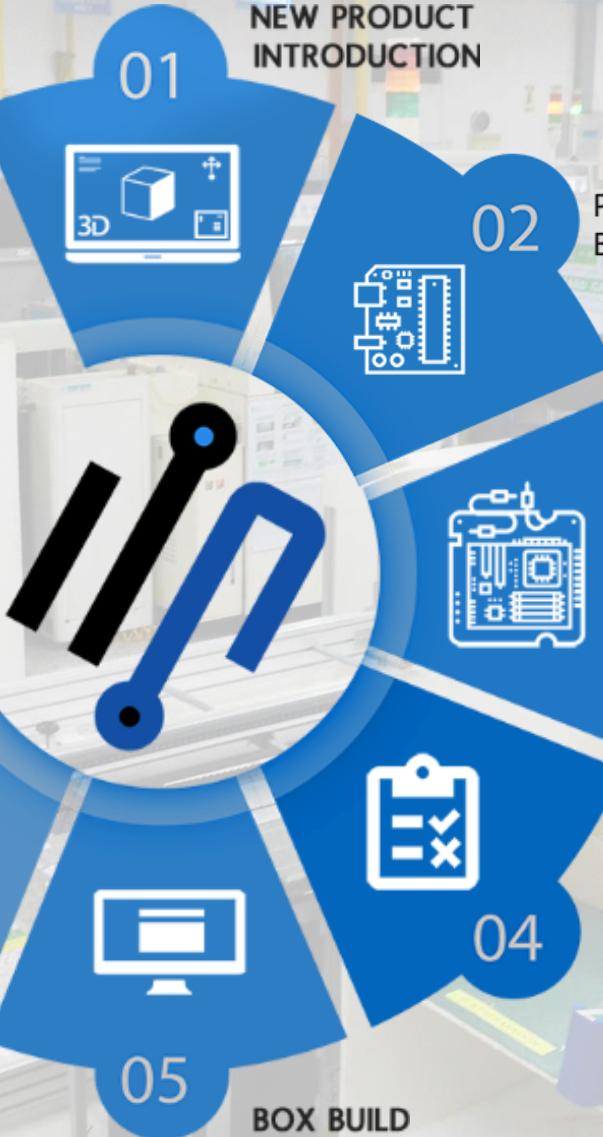
BOX BUILD

04

TESTING
CAPABILITIES



01



SMT MANUFACTURING — EQUIPMENT

- Screen Printer ESE US-1000x
- Chip Mounter Samsung SM411
- Chip Mounter Samsung SM421
- Chip Mounter Samsung SM471
- Chip Mounter Samsung SM471Plus
- Chip Mounter Samsung SM482
- Chip Mounter Yamaha YV100X
- Reflow Oven TSM A70-j102S
- Reflow Oven TSM N70-e10S
- Solder Paste Inspection Kho Young KY3020T
- 2D AOI Samsung MV8SH
- 3D AOI Mirtec MV9
- X-Ray Machine
- BGA Rework station



TYPICAL SMT LINE SETUP



ACTUAL LINE SMT SETUP



WITH IN-LINE SPI MACHINE AND HIGH SPEED SM471/SM482 CHIP MOUNTERS.

OTHER MANUFACTURING CAPABILITY

60 Station Universal
Auto Insertion
Machine (for Axial
and Radial Type)



AUTOMATED INSERTION MACHINE

OTHER MANUFACTURING CAPABILITY

Highly flexible
wave soldering
system.



WAVE SOLDER MACHINE

OTHER MANUFACTURING CAPABILITY

- Suitable for the soldering of through-hole components in high-end electronic products.
 - It can control the solder quantity, soldering time (temp profile) and solder quantity of each solder spot.
- Program creation is simple, using pictures or Gerber data to make production program.
 - Nozzle can be selected according to the size of soldering point, and there is no need for fixture to protect non solder parts.



SELECTIVE SOLDERING MACHINE

OTHER MANUFACTURING CAPABILITY

Soldering robot can do soldering, fully automatically and better soldering quality than manual soldering. The rotatable automatic soldering machine is multi-functional, it can adjust the welding angle, direction and set the solder joints at will, control the amount of tin in and out, control the size of the solder joints, and better ensure the welding process requirements of customers' products.



5441 Robot Soldering machine

OTHER MANUFACTURING CAPABILITY

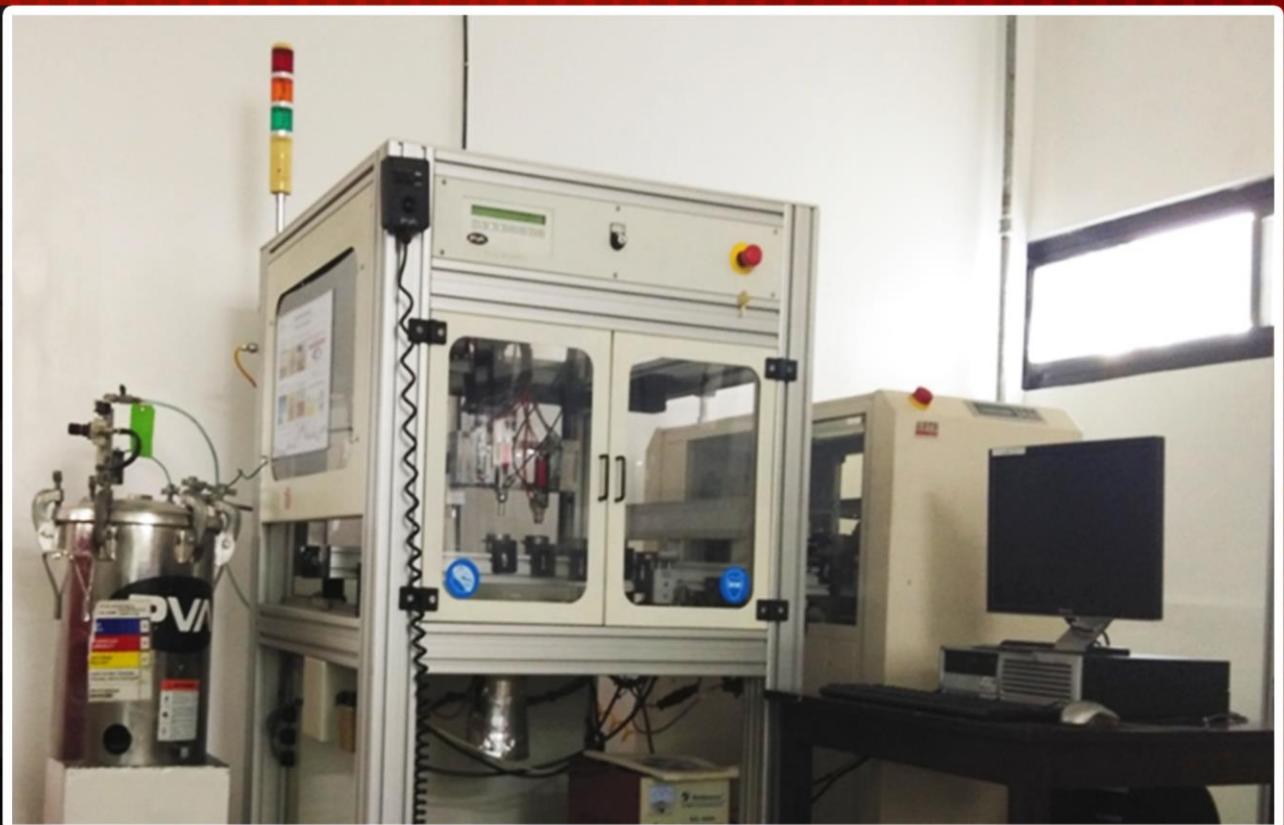
Capable of
any laser
marking/etching
requirement.



LASER MARKING MACHINE

OTHER MANUFACTURING CAPABILITY

For automated
and controlled
application of
conformal
coating.

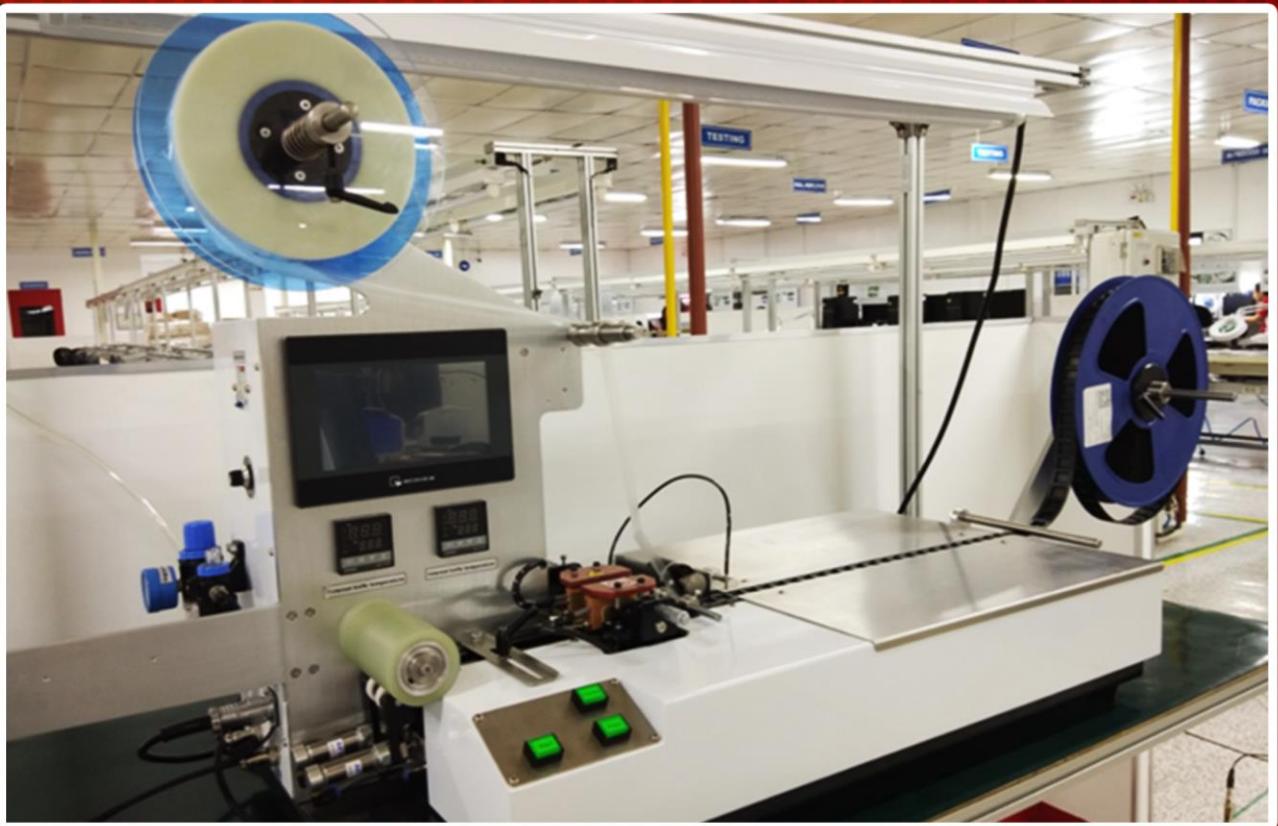


AUTOMATED CONFORMAL COATING MACHINE

OTHER MANUFACTURING CAPABILITY

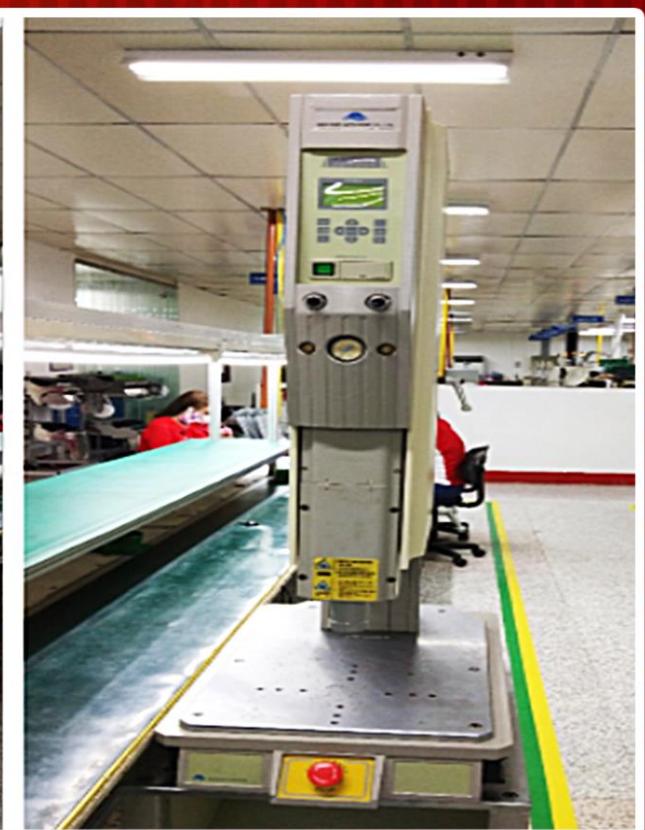
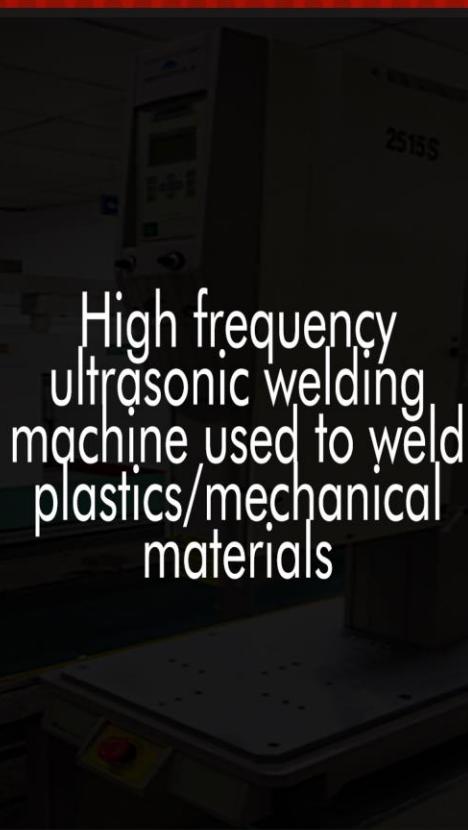


For specific
packing
requirements.



TAPE AND REEL MACHINE

OTHER MANUFACTURING CAPABILITY



ULTRASONIC WELDING MACHINE

OTHER MANUFACTURING CAPABILITY

For high quality rework of BGA components to assure conformity to the highest industry standards and specifications.



BGA REWORK STATION

OTHER MANUFACTURING CAPABILITY

- Measuring microscope and optical CMM users
- High Accuracy Image Dimension Measurement System $\pm 0.1 \mu\text{m}$ repeatability
 - 20 megapixels of high resolution
- Measure instantly at the press of a button



KEYENCE MEASURING EQUIPMENT

OTHER MANUFACTURING CAPABILITY

- New CCD system, new vision system can correspond to all kinds of PCB mark, with visual counterpoint correction function
- The sensor can monitor the milling cutter state in real time, and effectively prevent the continuous operation of the cutter
- Using high speed spindle, cutting stress is greatly reduced, precision is high, inertia is small, and response is fast
- Dual platform structure, can deal with different products at the same time



PCB DEPANELLING ROUTER MACHINE

OTHER MANUFACTURING CAPABILITY

High temperature production requirement such as product curing and testing.



HIGH TEMP OVEN

OTHER MANUFACTURING CAPABILITY

Burn-in is the process by which the product are exercised before being placed in service. This system evaluates the reliability of the Product and performs large capacity screenings.



Burn-in Room

OTHER MANUFACTURING CAPABILITY

The automatic battery cell sorting machine is professional designed for the sorting test battery cells which have completed the capacity sorting before out of factory. The battery sorter machine has 6 channels for OK battery cells and 1 for NG battery cells, which greatly promote the sorting efficiency and ensure the normalization of cells sorting.



Battery Sorting Machine

OTHER MANUFACTURING CAPABILITY

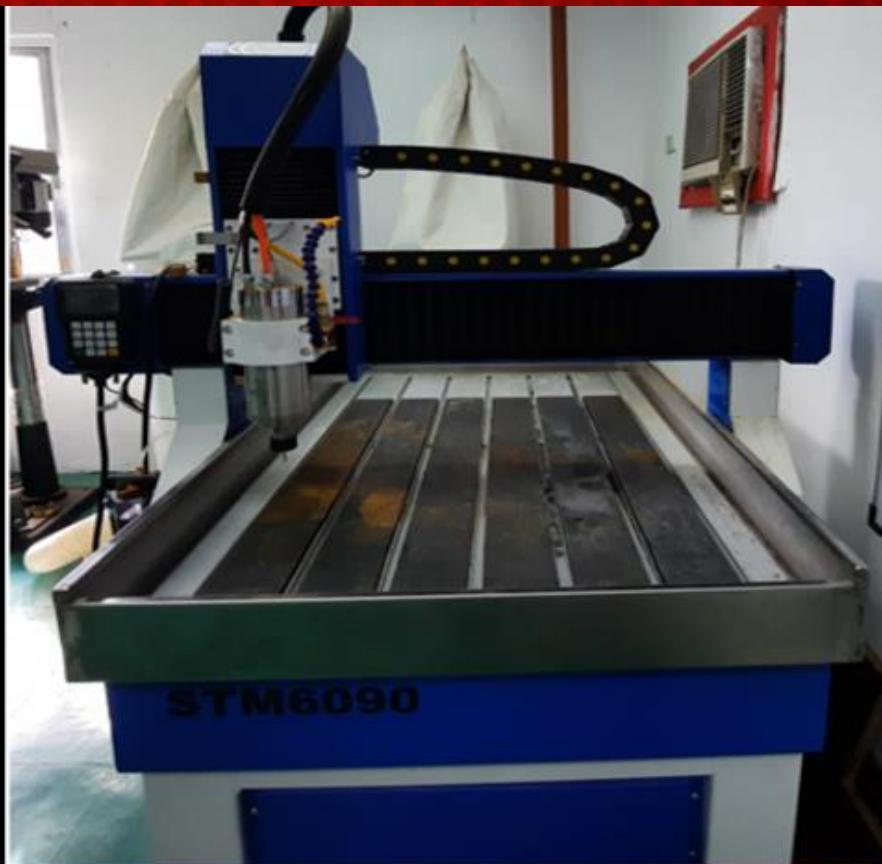
Is capable of printing any 3D design with any available filament on the market up to a maximum size of 305x305x605mm (12x12x23.8 inches). Thereby eliminating the need for expensive tooling at prototyping.



RAISE 3D PRINTER

OTHER MANUFACTURING CAPABILITY

- CNC Router
STM6090 with 4th
Rotary Axis for
Aluminum, Wood,
MDF



CNC MILLING / ROUTER MACHINE

OTHER MANUFACTURING CAPABILITY

Aqueous PCBA cleaning processes feature a very wide process window that facilitates the removal of all types of resin and flux residues from lead-free, leaded no-clean and Water soluble



PCBA AQUEOUS CLEANING/WASHING MACHINE

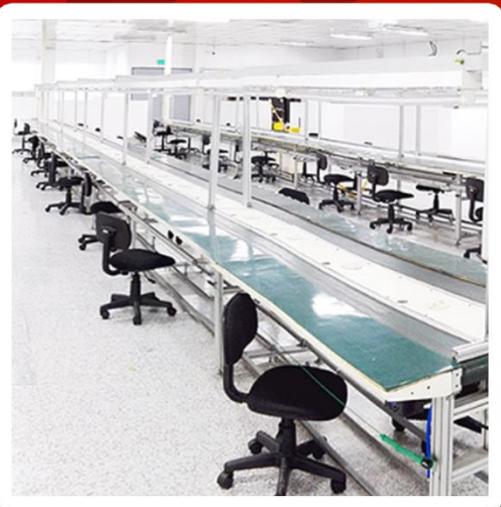
OTHER MANUFACTURING CAPABILITY

Reverse
Osmosis
System



DI WATER SYSTEM (Revese Osmosis)

PRODUCTION FACILITIES



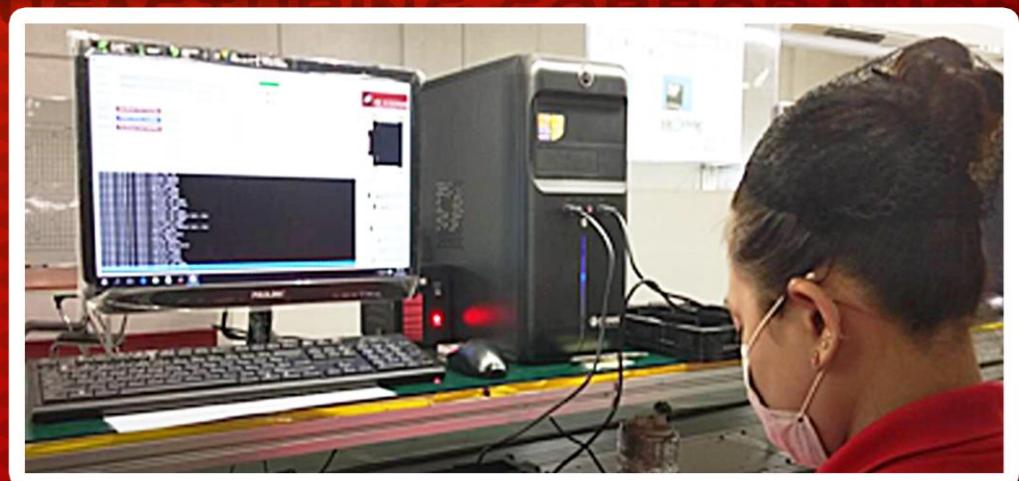
PRODUCTION FACILITIES



BOX BUILD ASSEMBLY LINES



ELECSYS



MAJOR PRODUCTS



RESIDENTIAL AND COMMERCIAL ALARM SYSTEMS



RFID PRODUCTS



TEMPERATURE CONTROLLERS

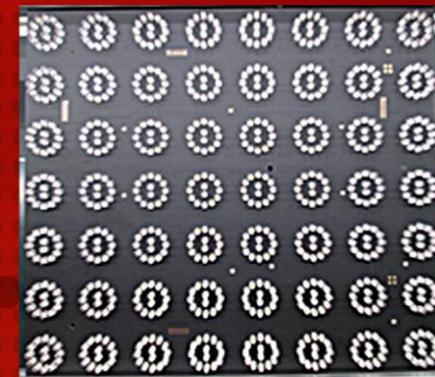
MAJOR PRODUCTS



WHISTLER RADAR DETECTOR



PCBA AUTOMOTIVE PRODUCT



DISPLAY PANELS



DISPLAY MODULES



SCANNER HANDHELD RADIO



LED STREET LIGHTS

MAJOR CUSTOMERS



Honeywell



AL-KO
QUALITY FOR LIFE



HYDRA-LIGHT™



LIGHT & MOTION



WAVECOM
INSTRUMENTS



dontek
ELECTRONIC MANUFACTURING

MAJOR CUSTOMERS



MAJOR CUSTOMERS



Grandsun Advanced Electronics Philippines Company Incorporated



HAYAKAWA COMPONENT TECHNOLOGIES INC.



YAHORNG
Ya Horng Electronic Philippines, Inc.



Baek Geum Philippines Corp.

Manufacturing/Production

MILKTECHNZ®



WINNER
PRODUCER AWARD 2022
MilktechNZ®

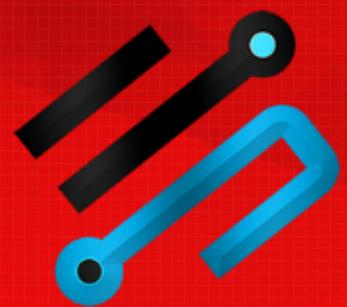
PRIMARY
INDUSTRIES
NEW ZEALAND
AWARDS

COMPETITIVE ADVANTAGES

COST EFFECTIVE
FAST PRODUCTION START-UP
MULTI-SKILLED WORKFORCE

ACCEPTS LOW TO HIGH VOLUME PRODUCTS
CUSTOMERS' INTELLECTUAL PROPERTY IS PROTECTED
SUPPORT IN SOURCING REPLACEMENT COMPONENTS

PROTOTYPING SUPPORT
FULL TURNKEY PROJECTS
CONSIGNMENT BASIS ACCEPTED
MOULD AND TOOL MANAGEMENT
TEST DEVELOPMENT SUPPORT
AFTER SALES WARRANTY SERVICE
WORLDWIDE DELIVERY SERVICE



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