



# Winow New Energy Co., Limited.

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# Company Introduction

- **Company Profile**
- **Product Services**
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- **Future Development**

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# Company Profile

Winow New Energy Co., Ltd (Dongguan) was founded in January 2018, is committed to becoming a one-stop PCBA for our clients. With more than 800 skilled workers, with one rich experienced, skilled and strong R&D team, and covering an area of 15000 square meters, we can support PCB design, PCB manufacturing, prototype and mass PCB assembly production, high-speed SMT (Surface mount technology), core plate (telescopic film), through-hole through-hole technology, components purchasing and test assembly.

We have a top management team composed of many high-tech professionals who have worked in world-famous companies for many years, such as Astec, Emerson, Huawei, Jabil. Our general manager, Hu Youchun, served as CEO of Astec, and our specialist, Ge Xuetao, worked as QA manager in Emerson... With their extensive experience and professional leadership, Winow's engineering and technical capabilities are so strong, and we are always committed to maintaining high quality is the first position in business.

And we use advanced MES for production line control, with Fuji NXT, MPM, JUKI, Desen, Suneast and other industry professional equipment, which covers automatic surface mount system, reflow soldering, automatic testing and packaging processes, and production workshop using a fully enclosed air-conditioning system, temperature and humidity and lighting intensity control, high standards of electrostatic protection management.

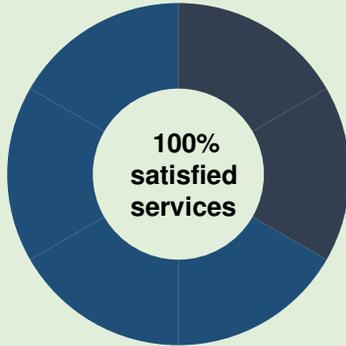
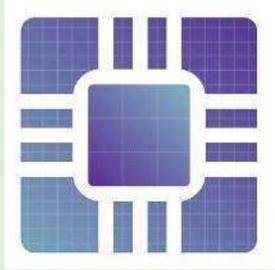
- SMT FUJI high-speed lines \*9 lines (maximum 128,000 points per hour)
- SMT JUKI medium-speed line \*9 lines (maximum 66,000 points per hour)
- DIP lines \*8 (each line can accommodate up to 15 people, and the two lines can be combined into U-shape when needed to facilitate the production of complex models)
- Assembly lines \*8 (flexible collocation, can adapt to the assembly requirements of different products)
- Three anti-paint automatic spraying line \* 4 (automatic spraying and curing integrated line, suitable for common three anti-paint and UV)
- Aging room \* 36 m<sup>2</sup>
- ICT test, veneer test, aging test, ATE test can be adjusted at any time PCB Assembly according to customer requirements



**Our Mission:** to provide most kinds of PCBA with high quality

**Our Vision:** establish Winow in the industry leading position, make this brand become China power supply manufacturer model, develop with more customers

# Product Services



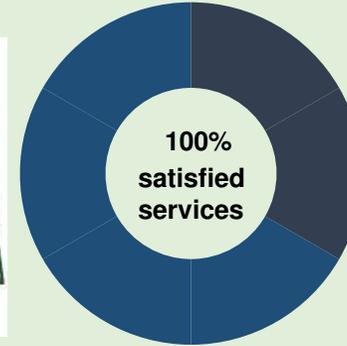
## PCB manufacturing



**Guang Dong Intech Technology Co.,Ltd**



High Multilayer PCB  
HDI PCB  
Aluminum Substrates PCB  
Thick Copper PCB



## PCB Assembly



PCB design (DFMA service)  
PCB assembly  
Components purchasing  
Test assembly  
Box building



## Guang Dong Intech Technology Co.,Ltd

Guang Dong Intech Technology Co.,Ltd, has a history of 22 years, with profound technical precipitation and abundant talents, which is located in the beautiful KONKA Industrial Park, Huizhou City, Guang dong Province. Its predecessor was KONKA Printed Board Co., Ltd., a wholly-owned subsidiary of Shenzhen OCT KONKA Group.

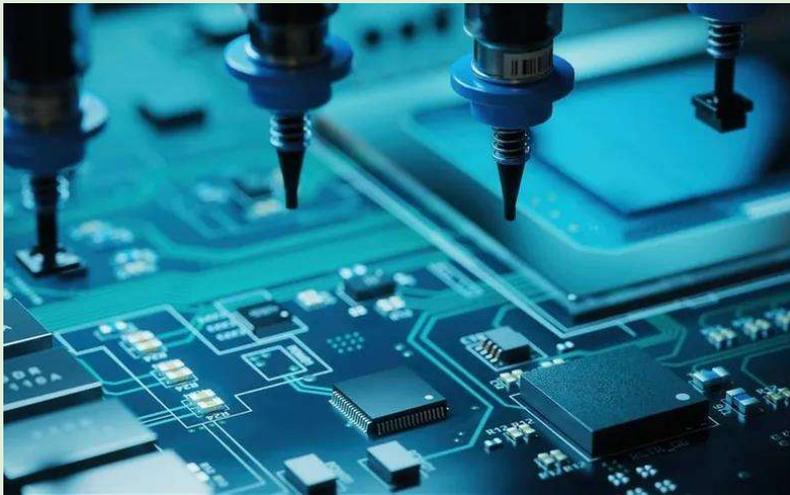
The factory focuses on the research and development, design, manufacturing of FR4 and aluminum based circuit board technology in the fast delivery period of medium or large quantities, with the highest number of 24 layers , of which HDI products account for more than 30%, with the average number of 5.6 layers.

The total building area of the factory is about 30000 square meters, with a design capacity of 80000 square meters per month and it has more than 800 full-time employees. The factory has passed UL (E528359), ISO9001 certification (064-22-Q-2017-R0-S), ISO14001 (064-22-E-2018-R0-S0) and TS16949 certification (50052189-IATF-16).

# Design-PCB Layout

Our company with professional PCB design concept, excellent PCB LAYOUT team, strict design process to provide customers with efficient and quality services.

- 90% of the technical staff have more than 10 years of industry experience, set up a PCB design department, to create more professional services.
- To provide PCB package construction for the customer (the customer provides the component DATASHEET).
- To provide PCB impedance calculation, lamination design, QA inspection, process inspection, EMC inspection for customers.
- The design includes high speed, high frequency, high power, simulation, digital and analog mixing, HDI, soft and hard combination, FPC and other design types.
- Master the most advanced technical information, fully consider EMI, EMC and manufacturability design, assist customers and LAYOUT engineers to do schematic diagram analysis and PCB design, to ensure the quality and reliability of the design.
- Support schematic diagram and PCB software formats: Cadence, Mentor ee, Mentor pads, Altium (99SE), etc.



# Design-DFMA service

Some of the key benefits of DFMA include:

- Speed

One of the main advantages of DFMA in construction is the significant reduction of on-site projects through the use of prefabricated elements.

- Reduce assembly costs

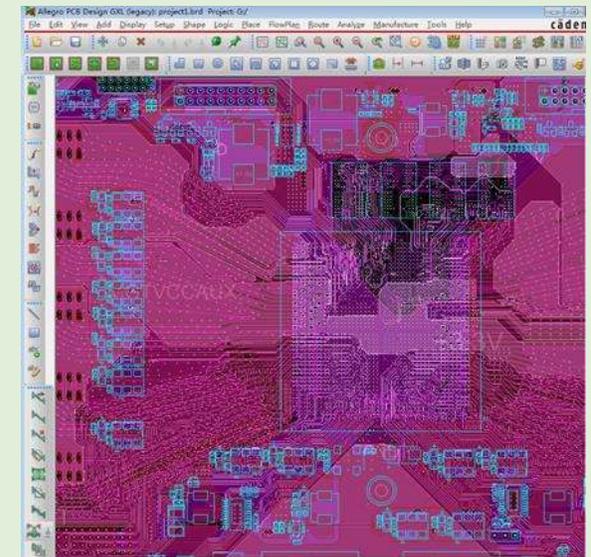
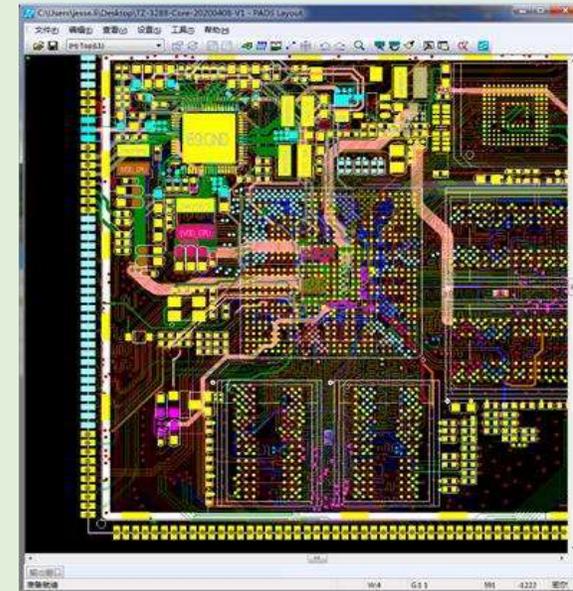
By using fewer parts, reducing labor required, and reducing the number of unique parts, DFMA can significantly reduce assembly costs.

- Higher quality and sustainability

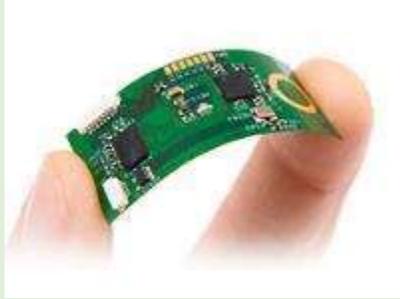
A highly automated approach improves quality and efficiency at every stage. Less waste may be generated during the construction phase, increasing the efficiency of on-site logistics and reducing the movement of vehicles to bring materials to the site. Shorter assembly time DFMA reduces assembly time by utilizing standard assembly practices such as vertical assembly and self-aligning parts. DFMA also ensures that the transition from the design phase to the production phase is as smooth and fast as possible. Improve reliability DFMA increases reliability by reducing the number of parts, thereby reducing the chance of failure.

- Safety

By removing construction activities from the site and placing them in a controlled factory environment. There may be significant positive impacts on safety.



# PCB Assembly



From component purchasing to function test+package finish, we provide one-shop stop services for every type of PCB. Our equipment and personnel are getting more perfectly. The professional technical team can complete the perfect control in PCB design to the assembly to ensure the quality. And we support quick-turn prototype assembly, turnkey PCB assembly, partial turnkey assembly.



## Advantages:

- ✓ No MOQ or MPQ limited
- ✓ Prototype or mass production order acceptable
- ✓ 2 hours quick quote
- ✓ Flexible payment options
- ✓ 90% of the technical staff have more than 10 years of industry experience.



# PCB Assembly --Assembly Capacity

Part supply flexibility	Turn-key	We source all components for you from authorized components suppliers or distributors.
	Partial Turn-key	Customer offer partial of components as they prefer and we will source the rest as required.
	Consigned	Components can be supplied by the customer. We accept parts in Reels, Cut Tape, Tube & Tray, Loose Parts and Bulk.
Assembly flexibility	Assemble type	SMT, THT&Hybrid, single or double side placement.
	Stencils	Offer Laser-cut stainless steel stencil.
	Solder type	Offer both lead&lead-free (RoHS Compliant) assembly services.
	Board type	Rigid board, flex board&rigid-flex board.
	PCB or Panel Size	Min board size of 10*10mm, will be panelized to suit the SMT machine
		Max board size of 330*530.
	Board shape	No restrictions for rectangular, Circular and any Odd Shapes, will adjust the panelize for better placement.
	Components	Passive components as small as 01005,0201,0402
Active components from 0,25mm pitch		
BGA above 0,25mm pitch,Package on Package		
Cable & wire		
Volume flexibility	Prototype	MOQ as low to 5units in 1-2 days delivery
	Low volume	Offer 3-4 days quick turn time service for low volume.
	High volumn	Offer accurate delivery to catch your deadline.

# PCB Assembly-surface mount technology (SMT)

Why should electronics manufacturers adopt surface mount technology (SMT)?

lower production costs  
integrate higher component density  
improve product performance

Advantages :

- ✓ Winow with eighteen complete SMT lines capable of high volume or low volume high mix, Winow can deal with any size demand and keep up with a continual production procurement cycle.
- ✓ Supporting our SMT manufacturing processes, we also offer extensive inspection and testing. Automated Optical Inspection (AOI) lets us inspect finished boards quickly, while our microscope and X-ray services provide additional assurance that they will be defect-free.



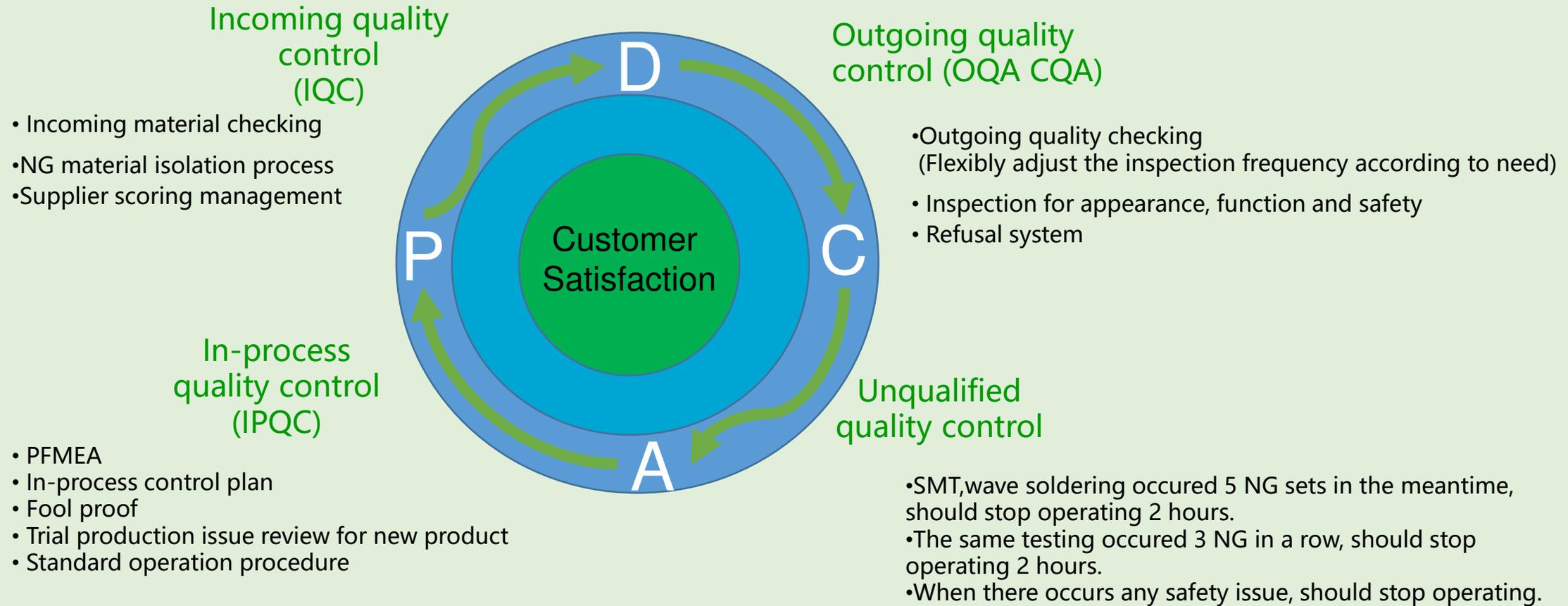
# PCB Assembly -- SMT Capacity

	Item	Capacity
1	Single and double sided SMT/PTH	Yes
2	Large parts on both sides, BGA on both sides	Yes
3	Smallest Chips size	0201
4	Min BGA and Micro BGA pitch and ball counts	0.008 in. (0.2mm) pitch, ball count greater than 1000
5	Min Leaded parts pitch	0.008 in. (0.2 mm)
6	Max Parts size assembly by machine	2.2 in. x 2.2 in. x 0.6 in.
7	Assembly surface mount connectors	Yes
8	Odd form parts: LED Resistor and capacitor networks Electrolytic capacitors Variable resistors and capacitors (pots) Sockets	Yes, Assembly by hands
9	Wave soldering	Yes
10	Max PCB size	14.5 in. x 19.5 in.
11	Min PCB Thickness	0.02
12	Fiducial Marks	Preferred but not required

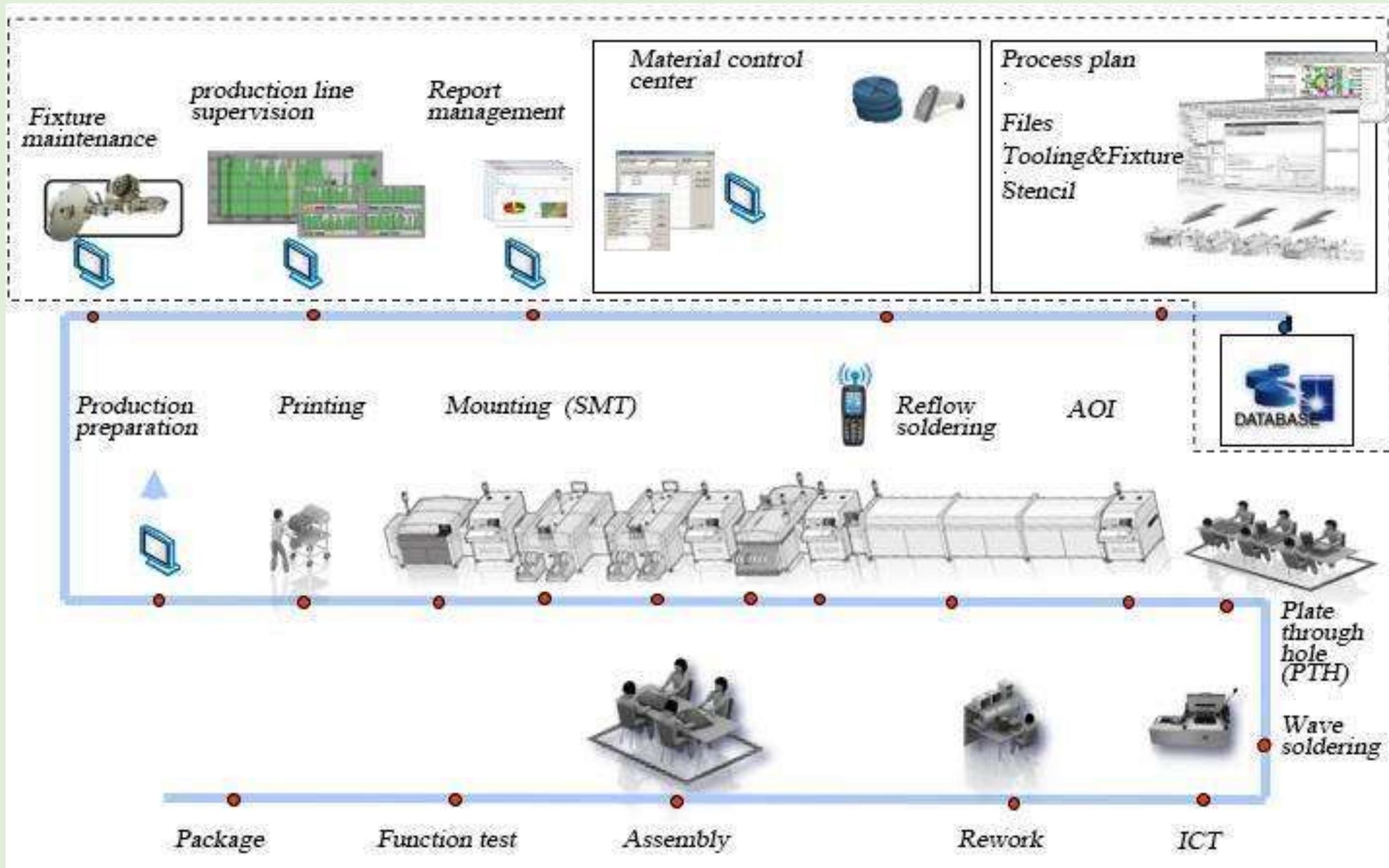
# PCB Assembly -- SMT Capacity

	Item	Capacity
13	PCB Finish:	<ol style="list-style-type: none"><li>1. SMOBC/HASL</li><li>2. Electrolytic gold</li><li>3. Electroless gold</li><li>4. Electroless silver</li><li>5. Immersion gold</li><li>6. Immersion tin</li><li>7. OSP</li></ol>
14	PCB Shape	Any
15	Panelized PCB	<ol style="list-style-type: none"><li>1. Tab routed</li><li>2. Breakaway tabs</li><li>3. V-Scored</li><li>4. Routed+ V scored</li></ol>
16	Inspection	<ol style="list-style-type: none"><li>1. X-ray analysis</li><li>2. Microscope to 20X</li></ol>
17	Rework	<ol style="list-style-type: none"><li>1. BGA removal and replacement station</li><li>2. SMT IR rework station</li><li>3. Thru-hole rework station</li></ol>

# PCB Assembly -- Quality Control



# PCB Assembly --Process Flow Chat



# PCB Assembly --Plant and Equipment



# PCB Assembly --Equipment



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# Test Assembly

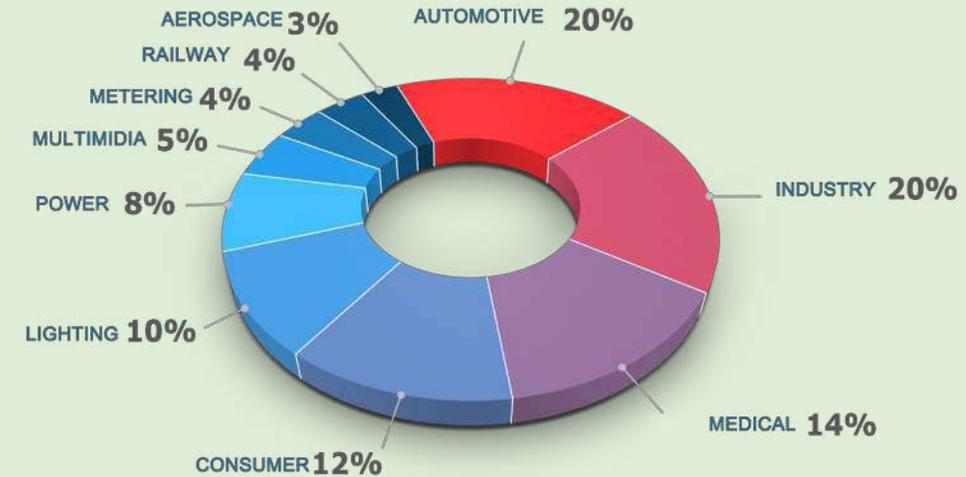
- Micro-Section:  
Digital Microscope (Keyence VHX5000), Sample & Grinder Machine
- Surface plating layer thickness measurement:  
X-Ray System (Fisher XDML PCB 200)
- Ionic contamination tester (Metronelec CT100-L)
- Ageing test, HR content Oven (GWS EK-04)
- Solderability test & Thermal stress test by Solder Pots
- Mechanical Measurements:  
Bow & Twist, Roughness, Mechanical, V-Cut, holes diameters,  
2D Measurement (Keyence 6225)



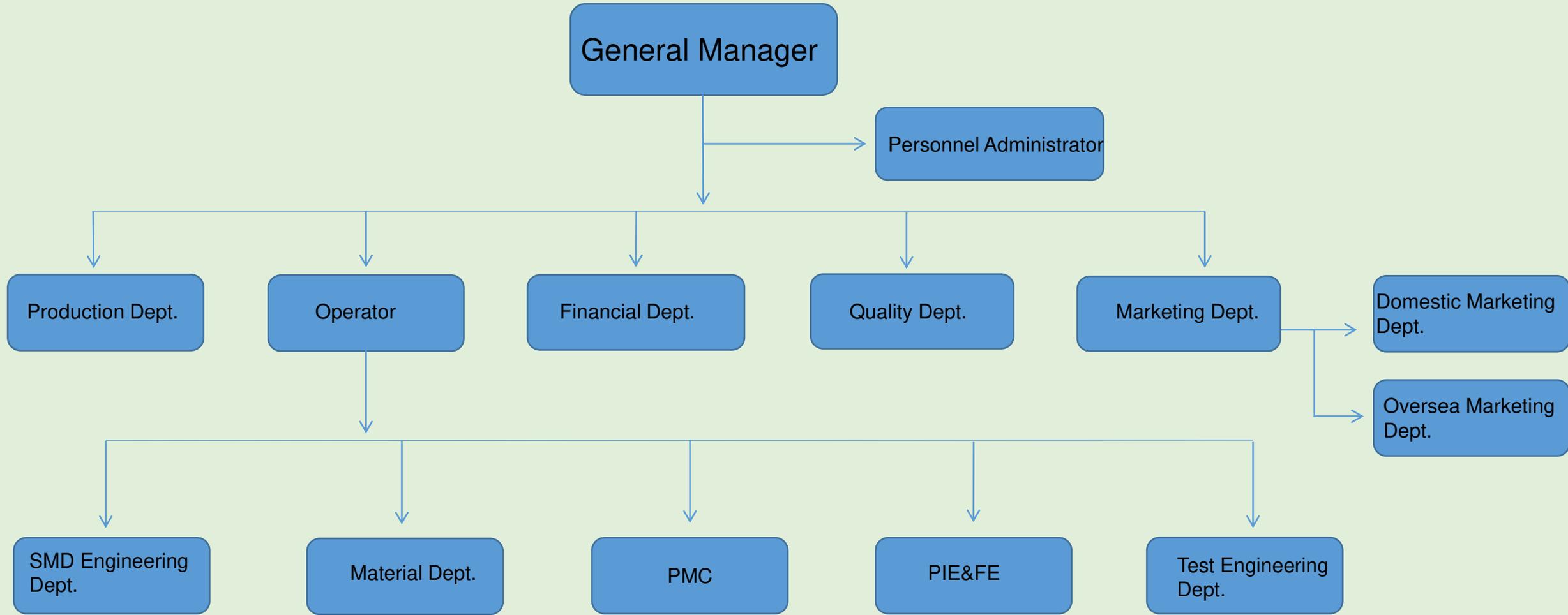
# Box building

Compatible with guidelines of ISO9001:2015, IATF16949:2016, RoHS and UL (E528359) certificates, we offer turnkey and custom box set up assembly products and services, including:

- Sub-Level Product Assembly
  - Cable Assembly
  - Wiring harnesses
  - Testing including ICT (In-Circuit Test), Functional, Final, Environmental and Burn-In
  - Software Loading and Product Configuration
  - Warehousing & Order Fulfillment & Traceability
  - Packaging & Labeling including Bar Coding
- 
- Get A Free, No-obligation Box Build Assembly Quote  
Got Box Building Demands and looking for a reliable PCB Assembler? You can compare with our offer with other manufacturers and pick up the most competitive PCB supplier. In addition to producing and integrating custom PCB assemblies, we can also procure all necessary parts. These include pneumatics, PLCs, switches, timers, and encoders, etc. –plus plastics, custom metalwork, and machining products.



# Organization Structure



# Quality Certificate

ISO9001, ISO14000 and IS 45001



# Future Development



From Winow, you receive a complete manufacturing solution. We take you from design, sourcing, purchasing and assembly, through new product introductions and prototype production. And we set up agile assembly, configuration and test processes, to ensure that we maintain our world-class performance levels for quality and on-time delivery.

We firmly believe that high quality and long-term customer satisfaction are the cornerstones of our continuous growth and success. To go on to meet the changing needs of our valued customers, Winow is committed to deepening our knowledge, developing innovative solutions and advancing our capabilities, and creates value that increases customer competitive through a World-Class Manufacturing Excellence solution that delivers superior quality and service.

---Winow New Energy Co., Limited



# We are Here for your need!

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