



NAM HING CIRCUIT BOARD COMPANY LIMITED

Professional, Focus, Innovation



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About Nam Hing

Established in 1964, Nam Hing Circuit Board Co., Ltd. was one of the largest and earliest PCB manufacturer in Hong Kong. Our products include single-sided, double-sided and multi-layers. We have developed a strong, reliable quality reputation among all well known electronic manufacturers in the local and oversea markets. In 1993, we moved our production facilities into Dongguan, Guangdong, PRC and have had expanded its production capacity.

Being one of the pioneer PCB in Hong Kong, Nam Hing PCB had been producing highest quality and high performance PCBs to clients all over the world. With the latest ISO9001 & IATF 16949 certified production facilities, our PCB can be 100% secured with FMEA and SPC as well as UL recognition.

Today's high customer satisfaction is our first priority. Every PCB made will be satisfied by our customer is always our goal.



Manufacturer of UL
Certified Components



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Production Facilities



CNC Drilling Machine



Flying Probe Machine



Dry Film Exposure Machine

Production Facilities



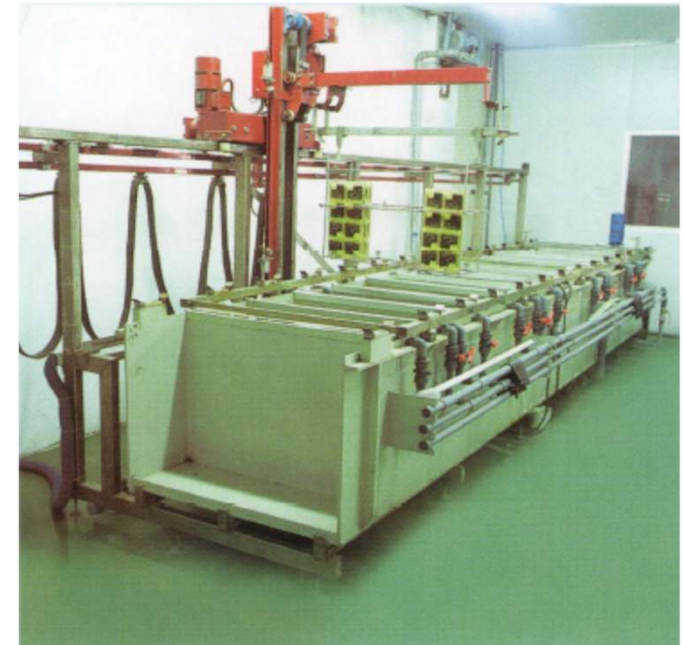
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CNC Routing Machine



Automatic Plating Line



Black Oxide Line

Production Facilities



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Entek Line



Layup Line



Vacuum Pressing Machine



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Capabilities I

| | | | |
|----------------------------|---|-----------------|---------|
| Available Laminates | FR4, CEM-1, FR2, FR1, XPC, Aluminum Substrate | | |
| Board Thickness vs. Layers | FR4 (1-12 Layers) | 0.25mm ~ 3.20mm | |
| | CEM-1 (1-2 Layers) | 1.00mm ~ 1.60mm | |
| | FR2 (1-2 Layers) | 0.80mm ~ 1.60mm | |
| | FR1 (1-2 Layers) | 0.80mm ~ 1.60mm | |
| | XPC (1-2 Layers) | 0.80mm ~ 1.60mm | |
| Copper Thickness | 0.5mils | 1/3oz | 12.0μm |
| | 0.7mils | 1/2oz | 17.5μm |
| | 1.4mils | 1oz | 35.0μm |
| | 2.8mils | 2oz | 70.0μm |
| | 4.2mils | 3oz | 105.0μm |
| Drilling | | | |
| Min. Holes Size | PTH | 0.20mm | |
| | NPTH | 0.30mm | |
| Holes Size Tolerance | PTH | ± 0.076mm | |
| | NPTH | ± 0.051mm | |



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Capabilities II

| | | |
|------------------------------|---|----------|
| Holes Registration Tolerance | Coordinate of X, Y $\pm 0.076\text{mm}$ (First Drill) | |
| | $\pm 0.127\text{mm}$ (Second Drill) | |
| Min. Slot Size | Min. Slot width is 0.7mm | |
| | Slot Length not less than 2 times of its width | |
| Image Application | Min. Line Width/ Spacing | |
| Photo Imaging Process | | |
| Base Copper Thickness | Flash Gold | HAL |
| 1/4oz | 0.0762mm | 0.0762mm |
| 1/2oz | 0.0762mm | 0.0762mm |
| 1oz | 0.13mm | 0.15mm |
| 2oz | 0.18mm | 0.20mm |
| Over 2oz | 0.25mm | 0.25mm |
| Line Width Tolerance | $\pm 20\%$ as per original film | |
| Pattern Registration | Tolerance ± 0.076 | |
| PTH Copper Thickness | 0.80 ~ 1.50 mils | |



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Capabilities III

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|----------------------------------|---------------------------|---------------------|
| Solder Thickness (HAL) | Surface | 80 ~ 100 microinch |
| | Hole | 200 ~ 800 microinch |
| Soft Gold Thickness (Flash Gold) | Nickel | 100 ~ 300 microinch |
| | Gold | 1 ~ 3 microinch |
| Immersion Gold | Nickel | 100 ~ 300 microinch |
| | Gold | 3 ~ 8 microinch |
| Gold Finger Thickness | 8 ~ 50 microinch | |
| Solder Mask Application | | |
| Min. Solder Mask Bridge | 0.13mm | |
| Min. Annular Ring | 0.15mm | |
| Solder Mask Thickness | 10 ~ 25mm | |
| Pattern Registration | Tolerance $\pm 0.004''$ | |
| Others Process | Carbon Ink | |
| | Peelable Mask | |
| OSP (Entek) | Copper Protective Coating | |



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Capabilities IV

| | |
|----------------------------|---|
| Routing Tolerance | $\pm 0.20\text{mm}$ (Outline Dimension) |
| Max. Board Size (Routing) | 24" x 18" |
| Punching Tolerance | ± 0.13 (Outline Dimension) |
| Max. Board Size (Punching) | 18" x 18" |
| V-Score Tolerance | $\pm 0.20\text{mm}$ |
| Depth Tolerance | 0.020" \pm 0.004" |
| | 30° or 45° \pm 5° |
| Flatness (Warp/Twist) | Max. 0.0075 inch/inch |
| Electrical Test | Max. test 200mA |
| Continuity Test | 10 ~ 100 ohms |
| Insulation Test | 2Mega ~2 Mega Ohms |

Certifications



Service Commitment

- ✓ Quick Response and Action within 24 hours
- ✓ One-Stop & Professional Technical Support
- ✓ Excellent Customer Services
- ✓ On-time Delivery
- ✓ Strict Quality Assurance and Control



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