<table>
<thead>
<tr>
<th>Plant</th>
<th>Type</th>
<th>Line</th>
<th>2021 Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Taipei City Plant I</td>
<td>PCBA</td>
<td>3</td>
<td>37,000</td>
</tr>
<tr>
<td>New Taipei City Plant II</td>
<td>PCBA</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hwa Ya Plant</td>
<td>PCBA</td>
<td>2</td>
<td>32,000</td>
</tr>
<tr>
<td>New Taipei City Plant I</td>
<td>SYSTEM</td>
<td>1.5</td>
<td>13,000</td>
</tr>
<tr>
<td>New Taipei City Plant II</td>
<td>SYSTEM</td>
<td>3</td>
<td>15,000</td>
</tr>
<tr>
<td>Hwa Ya Plant</td>
<td>SYSTEM</td>
<td>2</td>
<td>22,000</td>
</tr>
</tbody>
</table>

PCBA: 69,000pcs  
SYSTEM: 50,000pcs
# Smart Factory

## Smart Site
- Raw Materials, Products, & Jigs w/RFID Tags
- Product Records through RFID
- E-SOP Optimization
- Sensors for Environmental Monitoring
- Sensor for ESD Event Detection
- Predictive Maintenance (PdM)

## Smart Control
- Reflow
- Wave-Soldering
- Burn-In Room
- Visual Inspection Process
- Feedback from Machine

## Smart Operation
- HMI
- SCADA

## Smart Management
- e-WMS
- APS
- ERP
- MES
- SCM
- War Room

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Cloud Computing
ISO Certificates List

- ISO 9000
- ISO 14000
- ISO 45001
- ISO 13485

- ISO 45001:2018
- ISO 9001:2015 (TW, US, CN)
- ISO 14001:2015
- ISO 13485:2016 (TW, US)
New Taipei City Plant I & II
New Taipei City Plant I & II Capacity

1. Board-Level Capacity → 37,000 pcs
2. System-Product Capacity → 28,000 units

<table>
<thead>
<tr>
<th>Production Capacities</th>
<th>Shifts (Daily)</th>
<th>Hours (Daily)</th>
<th>PCs/Sets (month)</th>
<th>Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board-Level Product</td>
<td>3</td>
<td>24</td>
<td>37,000</td>
<td>SMD Line x 3</td>
</tr>
<tr>
<td>Outsourcing Capacity</td>
<td></td>
<td></td>
<td>&gt;5,000</td>
<td>Board level &gt;5,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>System level &gt;10,000</td>
</tr>
<tr>
<td>System-Level Product</td>
<td>1</td>
<td>8</td>
<td>28,000</td>
<td>System Line x 4.5</td>
</tr>
</tbody>
</table>

Factory Employees = 268          Space = 15,000 sq.M
Demand/Supply Management

Forecasting Process

♦ Monthly Rolling 3-Month Sales Forecast Review
♦ Weekly Supply Demand Status Review
♦ Daily Main Production Schedule and Materials
♦ Requirements Program Update
♦ Including Customers, Subcontractors, and Components Suppliers
Production Flow

QC Quality Control
- IPQC
- FQC
- OQC

Environment monitor
- Production Flow
  - SMT
  - DIP Hand Insertion
  - Burn-In Test
  - Functional Test
  - Packing
  - System Assembly

Engineering Support
- ME
  - Manufacture Eng.
  - Tooling, Fixture, SOP
- PE/TE
  - Product Eng.
  - Testing Method, SOP
- IE
  - Industrial Eng.
  - SOP, Efficiency
- FAE
  - Repair Team

Equipment monitor
Hwa Ya Plant
# Hwa Ya Plant Capacity

1. Board-Level Capacity ➔ 32,000 pcs  
2. System-Product Capacity ➔ 22,000 units

<table>
<thead>
<tr>
<th>Production Capacities</th>
<th>Shifts (Daily)</th>
<th>Hours (Daily)</th>
<th>PCs/Sets (month)</th>
<th>Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board-Level Product</td>
<td>3</td>
<td>24</td>
<td>32,000</td>
<td>SMD Line x 2</td>
</tr>
<tr>
<td>System-Level Product</td>
<td>2</td>
<td>8</td>
<td>22,000</td>
<td>System Line x 2</td>
</tr>
<tr>
<td>System-Level Product</td>
<td>1</td>
<td>8</td>
<td>28,000</td>
<td>System Line x 4.5</td>
</tr>
</tbody>
</table>

Factory Employees = 191  
Space = 8,300 sq.M
Hwa Ya Plant Strength

1. Highly Automated Production to Reduce Manpower 15%
2. Highly Automated Production to add performance 20%
3. AOI Replace Visual Inspection in DIP Process
4. Real-time Equipment Monitoring & Predictive Maintenance
5. RFID for Warehouse & WIP Management
6. War Room implement for facility, production line, PDM(Predictive maintenance), nCare, eSafe
SMT Process

- Laser engraving
- Print
- SPI
- High Speed & Multi-function
- Reflow
- AOI
- X-RAY
- Repair

LBS 800K
Horizon 03iX
TR7006L
CM602-L
Pyramax 125N
TR7500
Dage XD7500VR

On line 100%
Off line sampling
DIP Process

Router Machine
Y-S330IN-LINE-SL(L)

Automatic Insertion
NPM-W2

Wave-solder
JC-400CLFDL/R

AOI + Selective wave soldering
OPTIMA III/ORISSA SYNCHRODEX

Touch-up
Touch-up line
System Process

Assembly → Pretest → Auto Burn-in → Function Test → Packing

Temperature: 35~45°C

Auto carton folding -> sealing -> labeling -> palletizer
Machine Monitoring HMI
eSafe for equipment
Thank You