Organic PhotoConductor
Imaging innovation always comes from OPC evolution. Fuji Electric is constantly introducing reliable products to the world.

In order to remain successful with you, Fuji will continue to pursue technological innovation and provide advanced Electrophotographic technology to the world.

Business Summary

- **Product**: OPC (Organic PhotoConductor), Peripheral Imaging Devices
- **Capacity**: 38 million pieces a year
- **Sales Office**: Japan, U.S., Germany, China/Hong Kong
- **Factory**: Fuji Electric (ShenZhen) Co., Ltd.
  - ShenZhen Guangdong, CHINA
- **Development**: Fuji Electric Co., Ltd. Matsumoto Factory
  - Matsumoto, Nagano, JAPAN
  - Fuji Electric (ShenZhen) Co., Ltd.
  - ShenZhen Guangdong, CHINA

Corporate History

1988 - Start OPC Production at Matsumoto Factory
1990 - Installed OPC manufacturing line in Hong Kong Fujikoki Co., Ltd. (became Fuji Electric Hong Kong Co., Ltd.) and it began production.
1993 - Installed OPC manufacturing line in U.S. Fuji Electric Inc. (became Fuji Electric Corporate of America Inc.) and it began production.
2004 - Installed OPC manufacturing line in Fuji Electric (ShenZhen) Co., Ltd. and it began production.
2006 - Consolidate all global manufacturing properties (Japan, U.S. and Hong Kong) into Fuji Electric (ShenZhen) Co., Ltd.

Factory Outline

- **Company Name**: Fuji Electric (ShenZhen) Co., Ltd.
- **Location**: Fuyong, Baoan, ShenZhen, Guangdong, CHINA
- **Capital Stock**: 36 million US dollars
- **Lot area**: 45,250m²
- **Number of Employees**: 1,000 (As of September, 2012)
In response to our customer's wide range of needs, our products are produced by the integrated manufacturing system.

**Electrophotographic process**

- Exposure
- Light
- Photoconductor
- Electrostatic Charge
- Erase Residual Voltage
- Image Development
- Fuser Roller
- Toner Transfer
- Cleaning
- Paper

**Offer a Wide range of specification**

<table>
<thead>
<tr>
<th>Charge Process</th>
<th>Print Device</th>
<th>Optical Source</th>
<th>Sensitivity $E_{100}$ ($\mu$C/cm$^2$)</th>
<th>Feature</th>
<th>Type</th>
<th>Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative Charging OPC</td>
<td>Low-speed printer (up to 20ppm)</td>
<td>LD \cdot LED</td>
<td>0.15 ~ 0.80</td>
<td>High Resolution</td>
<td>8</td>
<td>Outside Diameter $\varnothing 20 ~ \varnothing 262$</td>
</tr>
<tr>
<td></td>
<td>Medium-speed printer (21 to 40ppm)</td>
<td>LD \cdot LED</td>
<td>0.15 ~ 0.80</td>
<td>High Reliability</td>
<td>10</td>
<td>Length $236 ~ 1000$</td>
</tr>
<tr>
<td></td>
<td>High-speed printer (41ppm or more)</td>
<td>LD \cdot LED</td>
<td>0.20 ~ 0.60</td>
<td>High Yield</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low-speed digital PPC</td>
<td>(up to 20ppm)</td>
<td>LD \cdot LED</td>
<td>0.20 ~ 0.60</td>
<td>High Resolution</td>
<td>10</td>
<td>Length $236 ~ 1000$</td>
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<td></td>
</tr>
<tr>
<td>High-speed digital PPC (41ppm or more)</td>
<td>LD \cdot LED</td>
<td>0.20 ~ 0.60</td>
<td>High Yield</td>
<td>10</td>
<td>Length $236 ~ 1000$</td>
<td></td>
</tr>
<tr>
<td>Positive Charging OPC</td>
<td>Low-speed or medium-speed printer (up to 30ppm)</td>
<td>LD \cdot LED</td>
<td>0.25 ~ 1.20</td>
<td>High Resolution</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High-speed or high-speed printer (31ppm or more)</td>
<td>LD \cdot LED</td>
<td>0.25 ~ 1.20</td>
<td>High Resolution</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Layer Structure of OPC**

- Negative Charging OPC
- Positive Charging OPC

**Integrated manufacturing process provides best solution fit into your products.**

- Cold Drawing
- Chamfer the corners
- Surface Conditioning
- Washing and Rinsing
- Shipment
- Formulated Mixture Dipping Technology
- Cosmetic/Electric Printing/Inspection
- Assembling and Packaging
The best fit products for our customers will be delivered through our global network.

Persistent Effort to the Future
A broad lineup backed by proven material design and evaluation technology delivers the world’s most efficient products.

Molecular Design Technology
Molecular geometry engineering optimizes photoconductive materials
- Calculate molecular orbital and enhance material design
- Design Simulation to predict characteristics
- Competitive cost design

Constant research and Development @ Matsumoto
Manufa cturing @ Shen Zhen

Cutting Edge Analytical Technique
Distinctive analytical approach provides optimum photoconductive layer design
- Electrostatic latent image analyzer
  Analyze surface voltage distribution to evaluate latent image resolution
- Toner adhesion analyzer
  Measure adhesion force from both electrostatic and physical view points
- High Speed motion analyzer
  Investigate behavior change of the cleaning process to optimize it

Machining
Coating
Automatic inspector

Sales Network (Japan/U.S./Europe/China/Asia)

Global Sales Network
We deliver the best products and services through our excellent staff and a supply chain that spans the globe.