



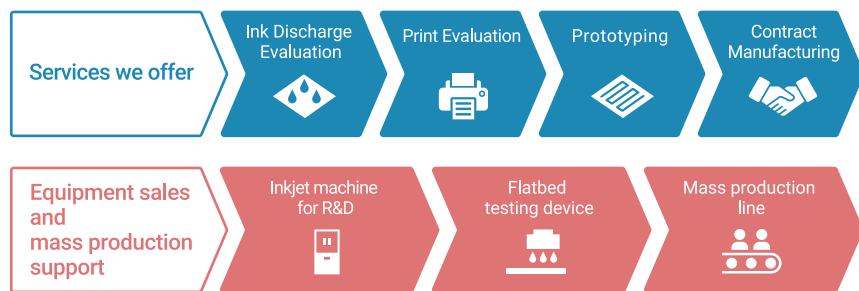
ADDITIVE MANUFACTURING CENTER

AMC (Additive Manufacturing Center) is devoted to the advancement of mass production by AM

By leading the world with AM, we aim to make AM a major manufacturing method in Electronics, Healthcare, Textile and Optics.

\*AM uses inkjet and other printing technologies to selectively stack materials onto desired areas.

Image: Stretchable LED Lamp Using a Tomoe-type Kirigami Structure P-Flex®



## The Services

**Ink Discharge Evaluation**  
Verification of ink discharge from the inkjet printhead.

**Print Evaluation**  
Verification of the printed circuits & patterns.

**Prototyping**  
IJ prototyping collaboration for circuits & biosensors.

**Contract Manufacturing**  
Prototyping & manufacturing from small lots.



EPSON  
R&D inkjet printing equipment

## Electronics

### Ink

Metal nanoparticles Inks, Catalyst ink, insulating materials, carbon inks, transparent conductive material inks, glowing inks, solar cell related materials, semiconductor inks, pretreatment agents, decorative printing inks, etc.

### Substrate

PET, PI, PC, glass, paper, materials that are biocompatible, disposable, or have good electrical properties, etc.

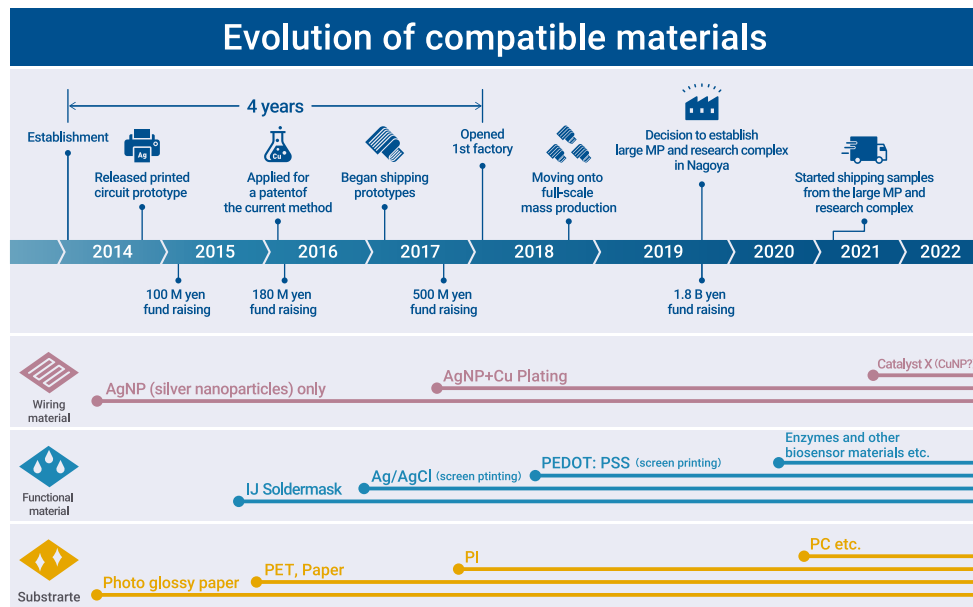
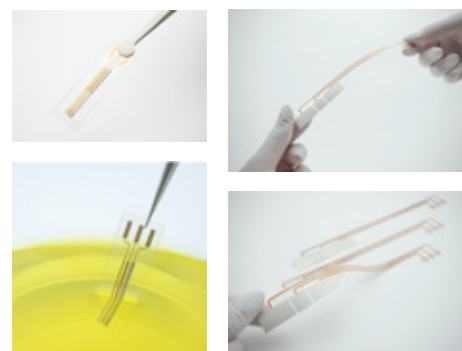
### Technological applications for P-Flex™

Development of IMPC™ related technologies (resin housing, wiring, connector integrated molding, etc.)

## Healthcare

### Biosensors, etc.

Enzymes, Transducers, Mediators, insulating layers



## Textile

Dyeing, texturing, proofing (water, antibacterial, odor, etc.)

## Optics

Freedom in setting of refractive index (GRIN lens, etc.)  
High transparency, cuts specific frequencies

## Bases



AMC Tokyo: Till the pilot phase



AMC Nagoya: Mass production & testing

### Cooperation bases

- EPSON Fujimi Inkjet Innovation Lab, Fujimi Office
- TAKAHATA PRECISION Co., LTD. Sakaigawa Lab

## Backed by Various Industries, a New World Standard

Company Name	Expected role
SEIKO EPSON CORPORATION	Inkjet printing technology
Mitsui Chemicals Inc.	Production tie-up/ material development
TAKAHATA PRECISION Co., LTD.	Development of 3D wiring components

## Company Overview



Company name: Elephantech Inc.  
 Establishment: January 6, 2014  
 Address: 4-3-8 Hatchobori, Chuo-ku, Tokyo 104-0032, Japan  
 Capital: JPY 310 million  
 Representative: Shinya Shimizu, CEO  
 Website: <https://www.elephantech.co.jp/en/>  
 Contact: <https://www.elephantech.co.jp/en/about/#contact>



Department name: AMC (Additive Manufacturing Center)  
 Website: <https://info.elephantech.co.jp/amc/en>  
 Contact: <https://info.elephantech.co.jp/amc-en#contact>

