

# Niigata Prefecture

## **NAMICS Co., Ltd. (Niigata City)**

Manufacturing ultrapure electronic component materials (electrochemical materials) through advanced research and development capability

## **DAI-ICHI SOKUHAN WORKS CO. (Ojiya City)**

Production of nano-level precision measuring instruments

## **Clean Technology Co., Ltd. (Nagaoka City)**

Color filter manufacturing equipments to support LCD (liquid crystal display) TVs

**Manufacturing ultrapure electronic component materials (electrochemical materials) through advanced research and development capability**

# NAMICS Co., Ltd.

3993, Nigorikawa, Niigata City  
Niigata Prefecture

Established in 1947  
TEL +81-25-258-5577

<http://www.namics.co.jp>



Toshikazu Odajima  
President

We have provided electrochemical materials to major electronic components manufacturers around the world through our outstanding research and development capability. We have the largest share in the world in 5 varieties and keep 40-80% of the share.

## Applying to the world's most advanced electronics products

Many products of NAMICS have been applied to most-advanced electronic components of LCD (liquid crystal display) TVs, PDP (plasma-panel) TVs, cell phones and PCs. For example, liquid protection materials which boast 80% share of world production are applied to controlling drivers, parts of pictures, as a standardized good of flat-screen television.

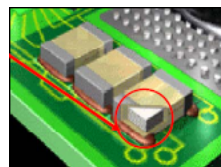
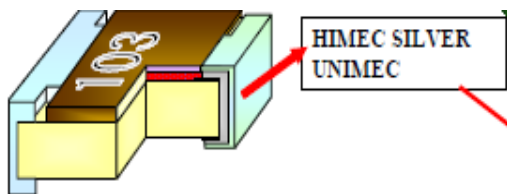
## From a coating manufacturer to a worldwide manufacturer of electronic component materials

Our original developments of electronic component materials have been achieved by developing technologies to enable electrical performances with mixing tiny glasses, metal powder, synthetic resin and minerals. We have been issued many patents for these technologies. Development of technologies has supported rapid progress of the electronic component industry. It is still fresh in our memory that we received a lot of inquires about our safety from manufacturers around the world when we had a strong earthquake here in Niigata last autumn.

## No. 1 share of high-polymer materials

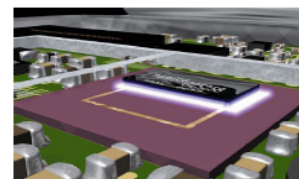
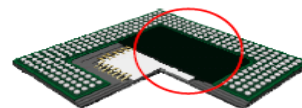
We have achieved the largest share (varies from 40% to 80% depending on the product) of electricity-conducting parts materials used for solar batteries and high-polymer materials used for condenser parts to store electricity. We have disseminated our technologies to the world with keywords of SEEDS (semiconductor, environment, energy, display, system) along with Niigata's personalities and nature.

### Part of conductive materials



### Parts of insulation materials

CHIPCOAT



## Production of nano-level precision measuring instruments

# DAI-ICHI SOKUHAN WORKS CO.

826-2, Tsubono, Ojiya City  
Niigata Prefecture

Established in 1944  
TEL +81-258-84-3911

<http://www.daiichisokuhan.co.jp>



Tatsuo Tonsho  
President

We have the largest share of screw-thread gauges as a leading manufacturer of precision measuring instruments (gauges). We also have had a high reputation as “ISSOKU (DAI-ICHI SOKUHAN)” for its high technologies and our products that have been used widely for measuring auto-parts and semiconductor manufacturing equipments.

### Ultraprecise measuring technologies to support precision instruments and electronics industries

Everything has been achieved ultra-precision in each field including auto industries, appliances and semiconductor. Precision with the level of nanometer (parts per million) is especially required for electronics parts. Ultraprecise measuring technologies that enable to measure fine processing and high accuracy parts correctly supports these industries of precision machinery and electronics.

### 1st Japan grand-prix of manufacturing award

We received the “minister of economy, trade and industry” award of the 1st Japan grand-prix of manufacturing award for our development of super precision indexing devices as applying lapping technologies (technology to manufacture by polishing metal surface) which was a traditional technology of manufacturing gauges. The super precision indexing device measures to an accuracy of 0.2 seconds as the precision of mechanical dividing angle which shows high accuracy to able to hit hole-in-one in a hole at Mt. Fuji from Tokyo.

Super precision indexing device  
Used as an angle measuring instruments of ultraprecise processing

### Contributing to ubiquitous society

Nano-level accuracy is required for hardware fields in today’s developing information network society. Precision ball screws of ISSOKU have contributed to accelerate accuracy, speed, downsizing and low-costing of technologies for developing ubiquitous society.



Gauges for checking threads



Super precision indexing devices



Miniature high lead ball screws  
(Used for semiconductor manufacturing equipments)

**Color filter  
manufacturing  
equipments to support  
LCD (liquid crystal  
display) TVs**

**Clean  
Technology  
Co., Ltd.**

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Established in 1990  
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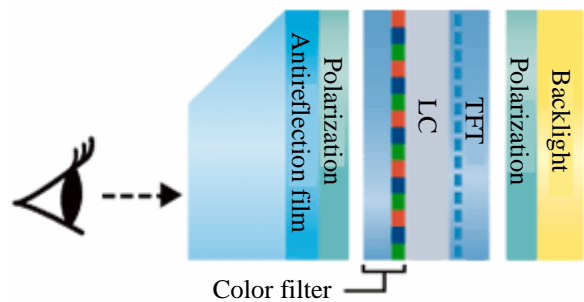


Kazuo Nishizawa  
President

We have 90 percent of global share in “color filter” manufacturing equipments to color on the LCD TV’s screen by using our original thermal control technology.

**Color filter manufacturing that is required  
for constant temperature**

Surface filters colored with colorants of red, green and blue enable to show colors on LCD TV’s screen. It is important to keep constant temperature in the heating and cooling processes of coloring during the process of manufacturing these filters.



**LCD TV manufacturers have complete confidence in the heating and cooling equipments**

Clean Technology has developed heating and cooling equipments for “color filters” by applying the original thermal control technology. Our own know-how has achieved the thermal control that had been getting difficult as boards get bigger. We also have achieved low cost and fast delivery, and therefore both domestic and overseas LCD TV manufacturers have complete confidence in our products.

**World’s only manufacturer applying to the 8th generation supersized screen**

We are the only manufacturer in the world to develop equipments to apply for the 8th generation supersized screen (2,160mm ~ 2,460mm) and have 90 percent of global share in the field of heating and cooling equipments.



Manufacturing floor



Heating equipments for the 8th generation