

Challenge to Ehe Future

We develop with society and continue to fulfill our goals of being a highly trustworthy and attractive company.

Management Principles

Create a frank and open-minded business culture Continue efforts to enhance our technology Raise the quality levels of our products Contribute to society

Management Vision

Aim to be a globally trusted corporate group by inspiring customers with high value-added products that have satisfying features, cost and quality.

The Source of Our Value Creation Microprocessing Technologies That Inspire People

TOK delivers value in a wide variety of fields, including the manufacture of semiconductors, by rolling out microprocessing and applied technologies for the nanoscale* domain, along with implementing our strategy of building close relationships with customers utilizing our technological knowledge and experiences and developing high value-added technologies from new standpoints.

* Nanometer (1nm) = one millionth of a millimeter; one hundred-thousandth the width of a human hair

The Cutting Edge

Cutting-Edge Semiconductor Materials

Cutting-edge technologies such as semiconductors are playing a major role in finding solutions to the global risks and social issues that have been emerging one after another, such as rapid and far-reaching climate change and new pandemics.

TOK is creating shared value by developing high value-added materials for cutting-edge semiconductors that are helping to solve high-level social and scientific issues.



TOK's photoresists and high-purity chemicals

Cutting-edge semiconductors

TOK's semiconductor material business

Economic value

Contributing to the evolution of all types of industry and technological innovation

Social value

Accelerating solutions to high-level social and scientific issues Contributing to creation of an environmentally friendly society

Creating shared value





80 Years at the Cutting Edge of Technology

1955 Society's Expectations

culture

Our business model of contributing to solutions for the social issues of each era through cutting-edge fine chemicals has been part of the Company's immutable DNA, passed down since the time of our founder, Shigemasa Mukai.

TOK's Output:

1940 Social Issues Safety

Japan's first high-purity potassium hydroxide

→ Extended life for batteries used in coal miners' cap lights

Outcome: Worker safety

Philosophy: Challenge ourselves to develop products, however hard it may be, useful to society and not offered by other companies





High-purity potassium hydroxide advertisement

TOK's Output:

Japan's first domestically produced high-purity potassium silicate "Ohkaseal" → Reduced cost of cathode-ray tubes for black and white TVs

Outcome: Development of culture and entertainment

Philosophy: We shall conduct manufacturing to create products that others cannot imitate, to be original, to focus on high-purity products, and to support manufacturing with advanced technological capabilities.



Headquarters Kawasaki I



Ohkaseal reactor (about 1960

TOK's Output:

1971 Social Issues

Eco-friendly synthetic rubber photoresists \rightarrow Reduced environmental impact **Outcome:** Environmental protection **Philosophy:**

A willingness to take on challenges based on the management principle of "creating a frank and open-minded business culture'



Entire view of the Sagami Plant (1968)



Sagami Plant The first full-scale photoresists plant (1971)

Data Section

TOK will continue to create value at the cutting edge, as an R&D-driven company meeting social expectations with chemicals.



80th anniversary

We will continue to evolve value creation in cutting-edge fields, aiming to become a 100-year company.



1997 Society's Expectations



Emergence of the internet and mobile society **Philosophy:**

Continue efforts to enhance our technology * Ultra large scale integration: Integrated circuits

with integration density of over 10 million semiconductor elements per chip



Electron microscope room, R&D Building at the Sagami Operation Center (1997)

Outcome:



Stepper room, R&D Building at the Sagami Operation Center **TOK's Output:**

EUV photoresists \rightarrow 5G & IoT innovation **Outcome:** Solving social issues using 5G **Philosophy:** Explore new technologies, enhance technological capabilities and meet social expectations with chemicals for a sustainable earth



TOK Advanced Materials Co., Ltd.



New R&D Building at the Sagami Operation Center





Cutting-Edge Flagship Product: TOK's Photoresists

With its accumulated success in creating cutting-edge value, TOK is the world's No. 1 manufacturer of photoresists, which are photosensitive materials indispensable for the manufacture of semiconductors. We will explain the functions and performance of photoresists in the semiconductor manufacturing process.



Starting point for customer's value creation process

TOK's photoresists become an input in the value creation process of customers, and have a special influence on the quality of customers' output in terms of product quality and yields.

See pages 8–9

Creating Shared Value

Load into various types of end products and create shared value

Our Strength

Providing photoresists that become growth drivers in both front-end and back-end processes of semiconductor manufacturing





Core Values of the Photoresist Business

Even when making semiconductors with the same line width and specifications, each semiconductor manufacturer requires vastly different features of photoresists and also uses them very differently. TOK has grown hand-in-hand with the semiconductor industry by continuously developing and providing tailor-made photoresists for customers who are leading cutting-edge miniaturization in each era. We will continue to play an essential role in the development and manufacture of cutting-edge semiconductors, contributing to the evolution of all types of industry, technological innovation, and the creation of an environmentally friendly society.



Semiconductor Line Width*1 and Global Semiconductor Market Size*2

