# 60-Year History of Progress Responding to the Changing Times

Maxell Group has been making progress while changing its shape in accordance with the changing times, and celebrated its 60th anniversary since foundation in 1961. "Analog Core Technologies," a core competence, is a generic term for "Mixing & Dispersion," "Fine Coating," and "High Precision Molding & Forming" technologies developed from the magnetic tape and dry battery manufacturing processes. We will continue to contribute to a sustainable society by leveraging the technological capabilities that have been evolved and passed down as Maxell's unique technologies through the passion and challenges of the people who came before us.



1961-1980

Popularization and miniaturization of home appliances

## Commercialized the first audio cassette tapes into the Japanese market

In the 1960s, high economic growth led to the rapid spread of consumer electronics products. While a variety of consumer electronics products greatly change people's lives, Maxell became the first company in Japan to commercialize cassette tapes. Since then, the company has continued to evolve in response to the music boom, contributing to the formation of a culture of portable music that continues up to now.

Technologies for applying magnetic powder accumulated with cassette tapes are now being used in a variety of products as "Fine Coating" technologies through further evolution.



1981 – 2000

Growing popularity of personal computers and increased storage capacity

#### Commercialized the world's first rewritable DVD-RAM discs

PCs became popular in earnest in the 1980s. As the volume of data handled has grown day by day, recording media have also made remarkable progress. In 1998, Maxell became the first company in the world to commercialize a rewritable DVD-RAM. It supported the transformation of the age from analog to digital. Molding die and molding technologies, which are crucial to producing high-quality DVD-RAM, have led to the manufacturing process of optical components as a "High-Precision Molding"

& Forming" technology.



2001-2021

Increasing interest in electrification and safety performance of automotives

## Commercialization of Heat-Resistant Coin-type Lithium Batteries (Heat-Resistant CR)

In the 21st century, automotive electronics progressed in order to reduce the environmental burden. In addition, interest in safety performance has been expanding and various safety functions have been added, including TPMS modules (tire pressure monitoring systems) that have been installed to prevent tire burst incidents, particularly in foreign countries. Maxell commercialized Heat-

Resistant Coin-type Lithium Batteries for TPMS modules in 2004. We use the "Mixing & Dispersion" technology that we have accumulated over many years since the development of dry batteries as our founded products, and provide batteries that can be used safely even in harsh environments.



ONTENTS Introduction MEX23 Special Feature Sustainability Corporate Governance Basic Data

# **About Maxell Group**

Established in 1961, Maxell Group has been aggressively expanding its business overseas since 1969, based on its refined quality and trust fostered in Japan. We will continue to expand our business in emerging countries and other countries while strengthening products and services to solve social issues.

### Business Segments and Major Group Companies

#### Energy

Manufactures and sells primary and rechargeable batteries such as lithium primary batteries, silver oxide batteries, coin-type lithium rechargeable batteries, and prismatic lithium-ion batteries, and manufactures and sells battery-related products such as chargers and electrode-applied products. It also is selling electricity through solar power generation.

#### **Functional Materials**

Manufactures and sells adhesive tapes, including tapes for construction and construction materials, functional materials such as ink, film and coated separators, and industrial rubber products.

Ube Maxell Kyoto Co., Ltd. Maxell Kureha Co., Ltd.

Manufactures and sells health care

and beauty care equipment, small

electrical equipment, audio acces-

sories, recording media, batteries

and chargers, hydraulic tools, and

other products.

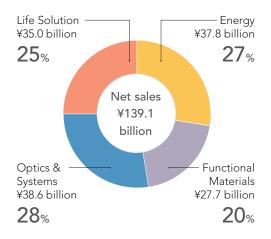
### Optics & Systems

Manufactures and sells optical components, electroforming and precision components, semiconductor-related embedded systems, molding die and plastic molded products, IC cards, projectors, and video equipment.

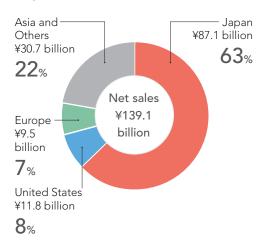
Maxell Frontier Co., Ltd.

Maxell Izumi Co., Ltd.

## Net Sales by Segment

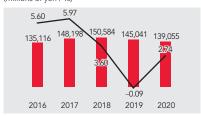


### Regional Net Sales Breakdown



### Financial and Non-Financial Highlights

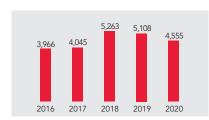
## Net Sales / Operating Profit Margin (millions of yen / %)



■ Net sales ■ Operating profit margin

### Number of Employees

(number of employees)



## Amount of CO<sub>2</sub> Waste Discharged\* (kt-CO<sub>2</sub>)



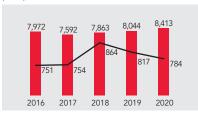
## Dividend Amount / Dividend Payout Ratio (¥ / %)



■ Dividend Amount ■ Dividend Payout Ratio

#### Number of Patent Assets / Number of Patent Applications

(cases)



Number of patent applicationsNumber of patent applications

#### Waste Emission

(t)



■ Total emission ■ Recycling
■ Intermediate treatment ■ Final disposal

<sup>\*</sup> Scope 1: Direct emissions due to fuel incineration, etc. at business sites Scope 2: Indirect emissions from purchased electricity, etc.