History of Our Business Evolution and Value Creation

Through manufacturing that leverages our unique technological capabilities in the rubber and plastic fields that we have cultivated since our founding, we respond to the needs of the times and provide new value to the world.

Founding to 1970s

Carrying on the spirit of Kiichiro Toyoda to develop rubber and plastic parts

In the late 1930s, Kiichiro Toyoda, who recognized the importance of rubber parts, established a rubber research department within the automotive division of Toyoda Automatic Loom Works. This was the origin of Toyoda Gosei. Kiichiro Toyoda would later go on to found Toyota Motor Corporation. Kiichiro's passion for research was carried over to Nagoya Rubber Co., Ltd., which was established in 1949.
In the 1950s, Nagoya Rubber focused on the development and production of rubber parts for automobiles, and became the first JIS-certified plant in Japan to manufacture hydraulic brake hoses for automobiles. Nagoya Rubber also took on the challenge of producing plastic steering wheels, which had previously been made of hard rubber. In 1954, the injection molding process was used to produce plastic steering wheels for Model FA trucks, and later, the same process was also used for the plastic steering wheels in the Toyopet Crown model.
From the 1960s onward, Nagoya Rubber expanded its business as Japan's automobile industry continued to grow and develop. In 1967, the Company opened the Inazawa Plant to produce plastic parts by injection molding, and subsequently expanded its production bases mainly in the Owari area. In 1973, the Company changed its name to the current Toyoda Gosei Co., Ltd.

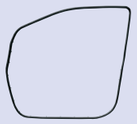
1980s to 2000s

Growing into a global company through commitment to research and development

As a member of the Toyota Group, our development and production of rubber and plastic parts for automobiles has expanded into various fields since the 1980s.
As a polymer manufacturer, we aim to be a development-oriented company and have strengthened our development capabilities by establishing the Kitajima Technical Center in 1995 and the Miwa Technical Center in 2009.
We also turned our attention to fields in other industries, and based on our thin-film formation technology developed in the automotive parts business, from 1986, we took on the challenge of researching blue LEDs, whose development had numerous technological hurdles that were considered difficult to overcome. In 1995, we succeeded in achieving mass production of blue LEDs.
Until the end of the 1980s, Toyoda Gosei's overseas markets consisted of Taiwan and North America under a four-company system, but in the 1990s, we accelerated our overseas expansion. Following North America and Asia, we expanded to Australia, Europe, Central and South America, and Africa, and have now grown into a global company with 62 overseas companies.

1949 | 1960 | 1970 | 1980 | 1990 | 2000

Knowledge in the Fields of Rubber and Plastics



1950
Weatherstrips

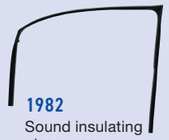
1953
Brake hoses

1954
Plastic injection steering wheels

1961
Piston cups

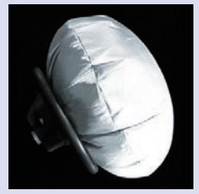
1974
Instrument panels

1977
Constant velocity joint boots



1982
Sound insulating glass runs

1982
Plastic fuel filler caps



1989
Driver-side airbags

1997
Rubber recycling technology

World's first

1998
Curtain airbags

World's first

2003
Millimeter wave radar-compatible emblem

World's first

2008
Plastic fuel filler pipes

Experience in Developing New Businesses

Rubber Research Department, Toyoda Automatic Loom Works

The challenge of developing plastic injection steering wheels

In 1952, at the suggestion of Toyota Motor Co., Ltd., one of our major customers, we installed a 48-ounce injection molding machine manufactured by Watson-Stillman Co. of the United States. While some were apprehensive about adopting injection molding, which was still an excessive investment even with financial support from Toyota Motor Co., Ltd., we took a leap of faith and succeeded in putting the equipment into operation. This marked the beginning of the age of plastics for automotive parts.

Injection molding machine

1986
Start of R&D for blue LEDs

The challenge of developing airbags

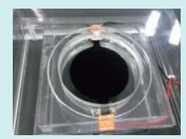
Toyoda Gosei boasts the top share in the Japanese airbag market. It is easy to assume that Toyoda Gosei began to produce airbags as part of its steering wheel manufacturing business, but in fact, the Company felt a sense of urgency over new commercial rights for Toyota Motor Corporation's first airbag, and the Company felt that it had to develop airbags as quickly as possible, resulting in a bold new challenge against fierce development competition.

World's first

1991
Successful development of blue LEDs is certified

World's first! Successful development of blue LEDs

LEDs are being used in a growing range of fields as an environmentally-friendly light source because of their superior energy-saving performance. It was the commercialization of blue LEDs in the 1990s that made LED products possible. In 1986, under the guidance of Professor Isamu Akasaki of Nagoya University's Faculty of Engineering and with the cooperation of Toyota Central R&D Labs, Toyoda Gosei began developing a gallium nitride (GaN)-based blue LED, which was certified as a success in 1991. Until then, the development of blue LEDs was thought to be impossible. The challenge, which was the first of its kind in the world, was a series of uncertainties and obstacles.



2007
Start of R&D for e-Rubber

Global Network

1949
Nagoya Rubber Co., Ltd. is established as a spin-off of the rubber research division of Toyota Motor Co., Ltd.

1957
Haruhi Plant begins operation

1967
Inazawa Plant begins operation

1973
Company name is changed to Toyoda Gosei Co., Ltd.

1976
Morimachi Plant begins operation

1977
U.S. Office is established in Illinois

1980
Head office is relocated to present location (Kiyosu, Aichi Prefecture)

1982
Bisai Plant begins operation

1989
TG Missouri Corporation is established

1995
Kitajima Technical Center is established

1999
Toyoda Gosei North America Corporation is established

2000
Toyoda Gosei Europe N.V. is established

2001
Toyoda Gosei Asia Co., Ltd. is established

2006
Toyoda Gosei (Shanghai) Co., Ltd. is established

2008
Toyoda Gosei Minda India Pvt. Ltd. is established

2009
Miwa Technical Center is established

History of Our Business Evolution and Value Creation and Our Competitive Advantages

2010s to Future

Contributing to the future with a focus on safety, comfort, and decarbonization

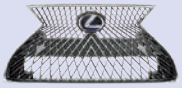
The 2010s brought new challenges for companies, such as measures to prevent global warming and the achieving of a sustainable society. In the automotive market, vehicles that do not rely on petroleum fuels, such as BEVs (battery electric vehicles), are expected to play a leading role in the future, forcing major changes.
We have developed high-pressure hydrogen tanks for FCEVs (fuel cell electric vehicles) using our polymer technology. This tank, jointly developed with Toyota Motor Corporation, is being used in Toyota's second-generation Mirai model, which started mass production in 2020. In response to the shift to BEVs, we will contribute to the reduction of traffic fatalities by offering optimal solutions for airbags and seat belts that accommodate the changes in vehicle structure, and we will also innovate vehicle design and manufacturing with our polymer technology for realizing new mobility. Also, we will develop and recycle high-performance materials by utilizing our expertise in polymer materials, and will not only utilize our developed materials and technologies within the Company but also sell them outside the Company, and through these new businesses, we will contribute to achieving a decarbonized and recycling-oriented society.
We will continue to provide value to society in the three areas of safety, comfort, and decarbonization through the use of polymer technology.

2010 2020

Knowledge in the Fields of Rubber and Plastics

World's first

2010
Lightweight opening trim weatherstrips



2017
Large radiator grilles

2019
Plastic turbo ducts/ Battery cases

2020
Extra-large spindle grilles

High-pressure hydrogen tanks

2021
Driver-side airbags for better protection in angled frontal collisions/ Pedestrian protection airbags

2022
CNF reinforced plastic

2023
Miniature wireless charging holder

2023
Millimeter wave compatible emblem that emits light

Experience in Developing New Businesses

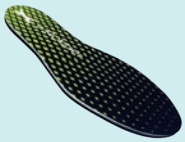
2010
Start of R&D for GaN power semiconductors

2019
Development with EBM Corp. of the SupeR BEAT heart surgery simulator that uses e-Rubber

2020
UV-C space disinfectors, which use UV-C (deep UV) LEDs, are launched. UV-C (deep UV) LEDs are confirmed to be highly effective in neutralizing COVID-19

2021
UV-C LED high-speed surface disinfectors

2021
Smart insoles



2022
Success in making larger GaN substrates for next-generation power semiconductors

Global Network

2013
Toyoda Gosei East Japan Co., Ltd. is established

2013
GDBR Industria e Comercio de Componentes Quimicos e de Borracha Ltda. is established

2014
Toyoda Gosei Irapuato Mexico, S.A. de C.V. is established

2018
PT Toyoda Gosei Indonesia is established

2019
Hubei Toyoda Gosei Zheng Ao Rubber And Plastic Sealing Technology Co., Ltd. is established

2020
Inabe Plant begins operation