

Users and TOYO Partnership Magazine

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New Year
issue

Top message

In order to contribute to customers' value creation, all of our employees will strive to supply quality products and services ever.

Happy New Year



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New year address

Yoshiaki Tabata

President and CEO



Happy new year.

I would like to express my sincere gratitude for your special support and patronage during the past year.

Looking back on the world situation last year, Russia's invasion of Ukraine shocked the world and cast a dark shadow over the global economy. With a peaceful solution still not in sight, economic sanctions against Russia by various countries are expected to last further, making it difficult to normalize economic activities. In addition, tensions have been mounting in the East Asian region due to the intensified struggle for hegemony between the United States and China with China's recent economic and military rise as a backdrop. It is easily conceivable that Japan will be affected in terms of economy and national securities in the event that the conflict across the Taiwan Strait gets serious.

As to economic climate in Japan, personal consumption has picked up thanks to the progress in vaccination that has curbed the spread of infection of COVID to some extent, and the effects of nationwide travel support by the government. In addition, people have gotten used to the "new normal" life style. However the future is still very bleak because of recent sharp depreciation of the yen that has caused soaring of resource procuring costs and problems in logistics due to longstanding shortage of shipping containers.

Despite of above environment, we have enjoyed rather solid business with increased inquiry for both Plastics Injection Molding Machines and Die-Casting Machines from our customers in the automotive and living ware industries. By region, we have received many inquiries for medium and large Injection Molding Machines from Europe and North America, and Die-Casting Machines from China. However, still continuing global shortage of semiconductors forced us to reschedule the delivery time of some machine models. We would deeply apologize for the great concern and inconvenience we caused to our customers and distributors with this regard. Now, we have greatly improved the situation by diversifying suppliers and expanding procuring routes. We will continue to shorten delivery time placing top priority on securing components in addition to constant production reforms.

As our global production enhancement, we started the third phase of construction at our Changshu factory in China in April last year. The construction has progressed as scheduled and will be completed soon. Once the new factory is completed, the production capacity of Injection Molding Machines will be increased to 150 units per month on an average. Then we can deliver Changshu's original high-spec model, the CS Series, in a timely manner to our customers in the ever-expanding EV, medical, and 5G-related sectors in Chinese market.

Regarding introduction efforts of our cutting-edge products to customers, we joined the "K 2022," the world-biggest trade fair for plastic and rubber products, held in Düsseldorf, Germany in last October, where we demonstrated two of our latest Plastics Injection Machines: Eco-positive and EU-customized Si-350-6S and Si-450-6S.

As for Die-Casting Machines, we participated in the "2022 Japan Die-Casting Congress & Exhibition (j-dec 2022)" held at Pacifico Yokohama in November last year, and exhibited the "Ds-350EX2" as a provisional model of the next generation electric servo die-casting machine, and the "T-Station lite Ver.2", an IoT-compatible management and operation system. We also demonstrated "remote casting" connecting the exhibition site and our head office with our remote control system, the "T-Remote Web."

This year, we have a plan to participate in various exhibitions in Japan and overseas:

In Japan, we will join "IPF Japan 2023" held three yearly at Makuhari Messe in November, where plastic and rubber-related industry professionals join from around the world. Expecting about 50,000 visitors, it is one of the largest exhibitions in Japan. IPF will be a good opportunity where you can see first-hand the latest equipment and technology contributing to not only your productivity but also reduction of power consumption and CO2 emissions.

Overseas exhibitions we are planning to join this year include PLASTINDIA 2023 (February, India), KOPLAS 2023 (March, South Korea), PLAST 2023 (September, Italy) for Injection Molding Machines, and KOREA METAL WEEK 2023 (October, Korea) for Die-Casting Machines. We are looking forward to seeing you at any of the exhibition sites.

Now we are currently developing new products having higher performance in terms of quality, cycle time and environmental efficiency to respond to ever environmentally conscious market and society.

At the TOYO Group, with the slogan of "Customers' Value Up", all of us strive to supply quality products and services so that we can contribute to increase customers' value with the technological expertise we have built up as a specialized manufacturer of Plastic Injection Molding Machines and Die-Casting Machines. We would appreciate your continued supports.

I sincerely hope that this year will lead to a bright future, and I would like to conclude my New Year's greetings by wishing you and your families a healthy and happy year.

Hiroyuki Yamamoto

Director and General Manager
of Sales Division



Happy new year.

Last year, the global economy recovered at large partly thanks to progress in vaccination against COVID-19. However, sharp depreciation of Japanese yen and China's lockdown policy heavily affected us, causing roaring price hike and long procurement time of material and components we need. And fuel and utility costs also increased. We would apologize for the inconvenience we caused to our customers, such as very long delivery time and increased price of our products. At the same time, I would like to cordially appreciate your powerful supports we have received despite of above situation.

Last year, we exhibited our products at various exhibitions mainly in Europe with the theme of "carbon neutrality," including K 2022 International Plastics and Rubber Industry Exhibition in Germany, and those in Poland, Italy, Slovenia and Turkey. In Japan, we joined the j-dec2022 Japan Die Casting Congress & Exposition, which was held for the first time in four years, where we exhibited our new eco-friendly electric servo Die Casting Machine, the Ds-350EX2. I am very happy we saw many more visitors than the last time, and have received a lot of inquiries. Thank you again for your visiting the show.

Also in this year, we are planning to exhibit our products at many exhibitions. Particularly at the IPF Japan 2023 (International Plastics Fair) to be held in this autumn, we will process our ideas backed by our collective power of accumulated technologies. We are sure that will help your efforts to increase your corporate value. Please look forward to it.

In 2023, TOYO will make all-out efforts to quickly and flexibly respond to the turbulence of the market. To name a few, the newly opened Hamamatsu Sales Office will further improve our business activities including customer service more closely to the customers in that region. In China, our newly expanded Changshu factory will start full-fledged shipments of our high-quality Injection Molding Machines to customers in China and other countries. In addition, we will boost our "Customers' Value Up" efforts by customizing our machine for individual customers.

I would like to conclude my New Year's greetings by wishing all of you that 2023 is a great year full of blessings and happiness.

Yasuhiro Miwa

Director, GM of Manufacturing and
Procurement Division,
and GM of Production Reform Office



Building relationship of trust with our customers, we continue to produce eco-friendly products.

Happy new year.

I would like to express my sincere gratitude for the special support and favorites we received from all of you over the past year.

Looking back on last year, it had been about three years since the novel coronavirus began to spread worldwide, and although it has become more contagious, we were able to continue to run our factory without seeing any clusters happening thanks to the vaccination against COVID-19 and strict adherence to the "Three Cs." In addition, we are finally relieved from movement restrictions, which had put us in stressful situation. This time, we would like to apologize for the inconvenience we caused to customers due to the delayed machine shipment, and for the increase in prices of our products caused by soaring of material cost.

In the last year, some social topics drew our attention in Japan, such as assassination of former Prime Minister Shinzo Abe during his election campaign speech, Yen's sharp depreciation beyond even ¥150/US\$ line that invited price hike of material we procure from abroad, and COVID-related ones including nationwide travel support and government's recommendation not to wear facial masks outdoors, and resumption of various big events after long hiatus due to pandemic.

For this year, we have set goals and plans as follows:

- Building of new head office of Toyo Machinery Engineering Co., Ltd. for better customer service, so that customers can use our products without any concern. The new head office is equipped with automatic parts storage system and a temperature-controlled room for storing precision parts. The new head office is scheduled to start its operation around October.
- Building of a new factory building, provisionally called G17, for production of large machines.
- Boosting of digitization (going paperless) as measures to protect environmental resources, where we will digitize the machine adjustment reports, and monitor our factory using IoT.
- Switching of cutting oil to alkaline electrolyzed water for better environment.
- Completing of the third factory at our Changshu factory in China before the Lunar New Year, which allows shorter delivery time and increased production of our products.

Thank you in advance for your continued patronage this year too. I would like to conclude my New Year's greetings by wishing you all good health and prosperity.

Exhibition
report



K 2022 (Dusseldorf, Germany)

The world's largest plastic exhibition "K 2022" was held in Düsseldorf, Germany for eight days from October 16 through October 23, 2022.

It was October 2019 when this three-yearly exhibition was held last time, which was before outbreak of COVID-19. Since then, most of trade fairs around the world had been canceled or postponed, and people had lost the opportunity to feel the power of the event first-hand. Before the show I expected that COVID would somehow affect K 2022 this time too, but I was surprised to see most of the exhibitors and visitors not wearing masks. I think COVID-19 seems to be just a flu now in Europe, and ordinary daily life started to return. I think it was a really perfect timing for holding K 2022.

But the total number of visitors was about 176,000, down about 20% from the previous time. This would be reflecting the fact that each country has each policy in dealing with COVID-19, and current Ukrainian situation also might cast some shadow.

At this time, with the concept of "BE A GREEN LEADER", we and our sole agent in Europe, TOYO europe, jointly exhibited two models of Injection Molding Machines, the Si-350-6S JH750E and the Si-450-6S JH750E, at our booth having more space than that of the previous time.

With the Si-350-6S, together with Leonhard Kruz (Germany), we demonstrated the production line of green products that is made by applying hot-printing of recycled

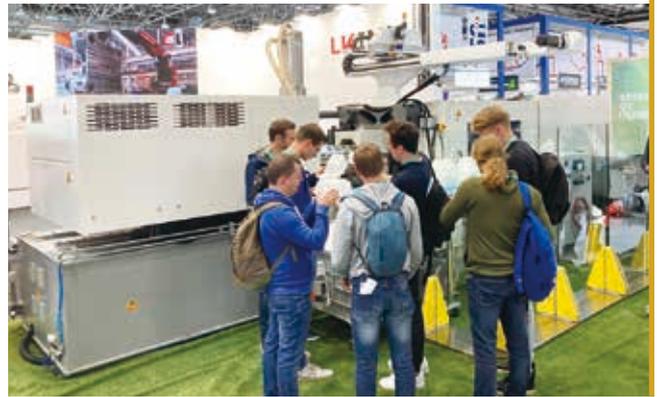


plastic-made thin plasticfilm to the tool box made of recycled resin.

On the other hand, the Si-450-6S, specially designed for container molding and equipped with a Campetella (Italy)-make high speed robot, appealed 4.3-second-high speed molding of food trays. It also boasted superiority in energy saving, displaying on the screen energy consumption by the injected mass in kWh/kg. It well proved the advantage of all-electric machines over hydraulic models.

In addition, we demonstrated the latest Industry 4.0 technology by connecting both molding machines to the “umati” app developed by VDMA (German Machinery Mechanical Engineering Industry Association) through the EUROMAP 77 interface, so that you can observe the machines’ operation conditions on line from anywhere in the world.

We are very happy we saw many visitors from all over the world, let alone Europe. Thank you very much for your visiting us at K 2022.



As a member of the plastics industry, we believe that we were able to fully display our efforts to meet the organizer’s concept of “Circular Economy”, “Climate Protection”, and “Digitalization” for this exhibition.

In 2025, when the next K 2025 is held, we will celebrate the 100th anniversary of our founding. With our slogan “Customers’ Value Up”, we will continue to offer useful proposals to create a sustainable society based on our many years of experience. (Mikio Takahashi)



Exhibition
report



2022 Japan Die Casting Congress & Exposition or “j-dec2022”

The 22nd “2022 Japan Die Casting Congress & Exposition” or “j-dec2022” for short was held at Pacifico Yokohama for three days from November 10 to 12. This event used to be held every other year, but the one two years ago was cancelled due to pandemic, so it was held for the first time in four years.

At the conference, TOYO made a presentation titled “Effects of high-response injection die-casting machines on product quality”, and at our booth, we showcased our Electric Servo Die-Casting Machine, the Ds-350EX2, and our centralized control system the T-Station lite Ver.2. In addition, using our remote screen operation system, the T-Remote Web, we demonstrated the casting condition





changing of the BD-350V7EX at the CS center located in our head office from the tablet terminal at the exhibition hall. Visitors were surprised to see how the system can control the casting condition on-line in the actual casting scene. We hope our exhibits and their demonstrations will help customers introduce “IoT” and “Digitalization” to their factories.

At “j-dec2022”, I once again felt the wonder of the event, where visitors and exhibitors can meet to communicate each other in-person.



Remote screen operation system
Demonstration of T-Remote Web



Technology report

Technology introduction 2023

Environment-friendly electric servo die casting machine

DS-350EX2

Servo Control Die Casting System

Provisional model
<Release date undecided>



Major features

- High speed injection speed via 100G acceleration (with THRV system)
- Smooth switching from high speed injection to pressure intensification
- Downsizing (The shortest overall length among our 350t class models)

Notice :
Relocation of
West Japan Branch



Our West Japan Branch Office moved to about 400 meters to the north of JR Tsuchiyama station.

New address
San-Ei Bldg. F4, 2241 Shimizu,
Uozumi-cho, Akashi City,
Hyogo Prefecture,
674-0074, Japan

※Telephone and fax numbers remain unchanged.



T O Y O I N F O R M A T I O N

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Notice :
Opening of Hamamatsu
Sales Office



Hamamatsu Sales Office has opened about 3 km east of JR Hamamatsu Station.

• Editor's Note •

This year will be a good year, definitely. Last year, historical awful incidents broke out; in Eastern Europe, Russia invaded Ukraine causing tyranny and massacre; and in Japan, the former prime minister was assassinated in public in broad daylight in a western city of Nara. However, they say, "good luck and bad luck alternate like the strands of a rope". I wish all of you a wonderful year. (Kamon)

● Cover: Akashi Strait Bridge and the sunrise Right: Akashi's specialty "Grilled Bream"



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