

New Year's Greeting



Tomohisa Yamazaki, President of Yamazaki Mazak Corporation

I wish you a Happy New Year.

Last year, the machine tool industry continued to boom as capital investment stayed at a high level in the automotive, semiconductor and various other industries, as was the case in the previous year. Reflecting strong willingness of companies to make capital investments, IMTS held in the United States in September and JIMTOF held in Japan in November both received a record high number of visitors. Statistics released by the Japan Machine Tool Builders' Association also showed that the total amount of orders set a record high for two consecutive years.

In the midst of such a record boom, the delivery of machines takes more time for the whole machine tool industry with demand outstripping supply, which is causing problems to customers. To improve this situation, Yamazaki Mazak started operation of the new Inabe Plant last year. We are also reorganizing the functions in our two plants in Minokamo and converting them into iSMART factories. We will continue to enhance production efficiency to shorten delivery times this year.

On the other hand, this favorable situation, which is recognized as "global synchronous growth," is now changing with increasing uncertainty in the global economy due to trade conflicts between the US and China and other reasons. While the future is unclear, we will respond flexibly to such market changes through the modification of the product mix and shipment destinations and other measures, which can be conducted with our global production system covering Japan, the US, Europe, China and Singapore.

Manufacturing industries are now in a time of transformation. In the automotive industry, it is said that the production process and business model will change significantly with the shift to electric vehicles and ride-sharing services. Other industries are also required to efficiently realize high-mix, low-volume production - in response to the diversification of consumer demands on a global scale. At the same time, manufacturers are facing challenges such as a decrease in the workforce and soaring personnel costs and accordingly increasing their interest in new production technologies and machine tools to solve these challenges.

To address these needs and challenges, Yamazaki Mazak is promoting the development of automation systems suitable for multiple workpieces in variable volume production, 5-axis multi-tasking machines that integrate processes to reduce the production lead time and hybrid multi-tasking machines combined with AM and other technologies. In parallel, we are advancing the development of IoT, AI, Digital Twin and other technologies that allow even unskilled operators to easily make full use of leading-edge automation systems and machine tools. We will also start to offer Mazak iCONNECT, which is an IoT-based comprehensive support, in Japan in April this year. Through this cloud-based connected service for machine tools, we will provide even better service support and solutions than before to help customers improve the productivity of their plants.

Yamazaki Mazak is celebrating its 100th anniversary in business this year. We have reached such a significant milestone thanks to the support of customers and I would like to express my deep appreciation to them. Since our foundation, we have been continuously committed to various new areas as a forerunner in the industry, such as the establishment of overseas production and support systems and the development of MAZATROL, an interactive CNC system, as well as the INTEGREX, which has become synonymous with multi-tasking machines. I believe that those continuous efforts allowed us to grow the Mazak brand worldwide and build a strong trust relationship with customers. We will continue to challenge ourselves and work diligently to prove worthy of the trust of our customers.

As a project to commemorate our 100th anniversary, we are scheduled to open the Yamazaki Mazak Museum of Machine Tools in the autumn of this year. It is regrettable that machine tools are not well known among the general public because they have few opportunities to see them. We hope that the museum helps many people learn about machine tools and become interested in manufacturing to support the growth of the whole manufacturing industry.

As we did in the past 100 years, we will continue to contribute to society and help build a prosperous future with technology.

Last but not least, I hope for your continued good health and success in this New Year.

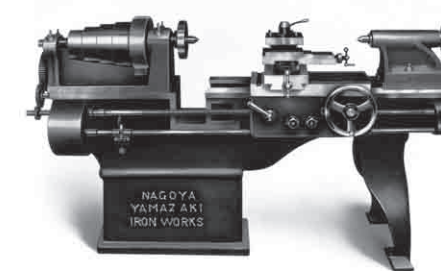
Mazak 100 YEARS OF CONTINUOUS PROGRESS

Yamazaki Mazak's 100 years of history

The history of Yamazaki Mazak, which celebrates its 100th anniversary in business this year, is shown chronologically below:

1919 to 1964

Product history



The first product sold was a 1200mm CD lathe delivered to Yasui Brother Sewing Machine Co. (Today: Brother Industries, Ltd.) in the 1928. With subsequent increases in orders for machine tools, we started full-scale production of machine tools in 1931.

1927
Began the
manufacturing of
machine tools

1959
General-purpose lathe
LB 1500

1963
General-purpose lathe
MAZAK 1500

Company history



1919
Sadakichi Yamazaki
Founder of
Yamazaki Machinery

Initially manufactured and sold straw mat weaving machinery and later expanded as a woodworking machinery manufacturer.

1930

1940

1950

1960

1944

Temporarily moved
the plant to
Ishikawa prefecture
to escape the
impact of the war

1947

Returned the plant
to Nagoya and
restarted operation
rebuilding machine
tools

1961

Started operation of
Oguchi Plant



1963

MAZAK
brand
introduction

Since "YAMAZAKI" is difficult to pronounce for persons outside of Japan, the "YA" and "I" were removed to use "MAZAK" as the brand name. At that time, it was very rare for Japanese companies to take considerations for the global market when deciding a brand name.



YA MAZAK I

1962

Teruyuki Yamazaki
appointed president

1962

Export of first
machine to the US

Sold machine tools to a US company with more than 30 designing changes, including modification to inch-based standard and hardening of the bed. This experience helped us learn techniques to manufacture world-class machine tools.



Newspaper article reporting
the first export of MAZAK
machines to the US

1968



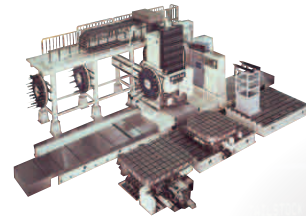
First Mazak NC lathe
MTC 1000M

1970



First Mazak machining
center, BTC No.5

1976



YMS-30

Mazak's first full-scale machining system featuring a machining section, a workpiece handling section and tooling section. This modular design provided unsurpassed flexibility in meeting a wide variety of production requirements.



1980

**SLANT TURN
30 Mill Center**

Machine tool equipped with both turning and milling functions. This was the predecessor to today's INTEGREX series – the start of multi-tasking machine tools development.

1983



**MAZATROL
FMS**

1987

**MULTIPLY
620**



First MULTIPLY turning center – a single machine with the machining capacity equivalent to that of two CNC lathes. This innovative two-turret/two-spindle design drew much attention from manufacturers worldwide.



1997

**INTEGREX
200Y**

First INTEGREX multi-tasking machine – equipped with a B-axis to provide machining capability comparable to a machining center.

1990



**SUPER
TURBO X-48**

1998

**MAZATROL
FUSION 640**

CNC system developed by incorporating the concept of "integration of CNC and PC." This made it possible for machine tools to be easily integrated in a factory network for convenient production management including control of machining programs and tool data.



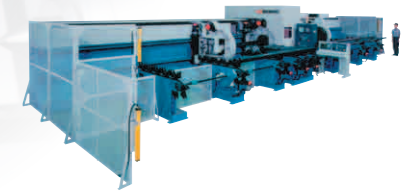
1999

VARIAXIS 200



1999

**3D FABRI
GEAR 300**



First 3D FABRI GEAR laser processing machine – automatic 5-axis cutting of long pipe and structural material. High accuracy cutting of the complex contours required for tight pipe joints significantly reduced the time required for processing structural material.

1960

1970

1980

1990

2000

1965

Moved company
headquarters from
Nagoya to Oguchi,
Aichi Prefecture

1968

Established US
subsidiary - Yamazaki
Machinery Corporation

1969

Export of first NC
lathe to the US

1974

Started operation of
US manufacturing
facility

Built plant in Kentucky and started
knockdown production. Following
repeated expansions, completed the
establishment of an integrated production
system covering the whole process from
parts machining to assembly in 1983.



1975

Established
Belgian subsidiary
- Yamazaki
Machinery Europe

1978

YMS-30 received
the Japan Society
of Mechanical
Engineers Award



1981

Started FMF
operation at the
Oguchi Plant

FMS performed
unmanned operation
during the evening to
considerably improve
factory utilization.
Covered in Japanese TV
program and by mass
media companies from
the US and Europe.



1983

Started operation of
the Minokamo Plant



1985

Changed company name
to Yamazaki Mazak
Corporation

Implemented new corporate identity
campaign. Changed the company name to
Yamazaki Mazak Corporation from
Yamazaki Machinery Works, Ltd. Adopted
orange, which represents warmth and
passion, as the corporate color. The three
lines in the "M" logo represent high quality,
innovative spirit and internationality.



1987

Started operation of
Yamazaki Machinery
U.K.

During talks between the UK Prime
Minister Margaret Thatcher and the
Japanese Prime Minister in 1984,
Mrs. Thatcher recommended that the
advanced Yamazaki Mazak
manufacturing facility be built in the UK.



1988

All-American Top 10
Best Company Award



1992

Started operation of
the Singapore Plant



Queen's Award for Export
Achievement in the UK
(also awarded in 2007)



1998

Upgraded
Oguchi Plant to
a Cyber Factory



2000

Started operation
of Little Giant
Plant in China

Initially produced CNC turning centers and currently manufactures
horizontal machining centers and automation systems. The plant
name "Little Giant" is derived from the goal of having a large output
produced by a small number of skilled employees.



2001



INTEGREX e-410H

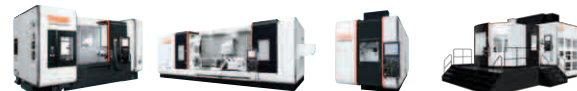
INTEGREX e-1060V

INTEGREX e-H and e-V series – the first large multi-tasking machines. With large cutting capacities and various functions to provide operator support, these machines significantly improved productivity in the machining of complex/large parts.

2008

**New focus on
machine ergonomics**

Launched collaboration with Mr. Ken Okuyama, a world-class industrial designer. This collaboration accelerated comprehensive development that pursued innovations in ease of operation.



2010
**INTEGREX
i-300**

2010
**INTEGREX
e-670H II**

2011
**VARIAXIS
i-600**

2013
**INTEGREX
e-1250V/8 II**

2014



INTEGREX i-400 AM



VTC-530/20 FSW

These hybrid multi-tasking machines integrate different machining technologies with MAZAK machine tools. The AM series, which integrate additive manufacturing technology, and the FSW series, which integrate friction stir welding technology, were announced at JIMTOF 2014.



MAZATROL SmoothX

CNC system that incorporates a touchscreen for enhanced intuitive programming. Equipped with new hardware and functions to increase machining speed and improve the quality of machined surfaces, as well as an enhanced network connection and other features, this CNC system significantly raised the productivity of machine tools.

2016

Mazak SMARTBOX

The Mazak SMARTBOX ensures cyber security for a safe and reliable network connection of plant equipment. This product assists customers around the world to convert their plants into smart factories.



2017



**OPTIPLEX
3015 DDL**

2018

**INTEGREX
e-1250V/8 AG**

A hybrid multi-tasking machine equipped with unique functions to machine gears. The whole process of gear processing – gear blank turning, machining and gear machining, is completed on one machine to substantially reduce in-process time while also realizing high-precision machining.



Introduced Mazak iCONNECT

Mazak iCONNECT, which is an IoT-based comprehensive support, was introduced as an advanced and expanded version of connected services.

Now, toward
the next 100 years

2002

QUICK TURN NEXUS



VERTICAL CENTER NEXUS

2004

**MAZA-CARE
maintenance and
monitoring service**

Using cell phone lines, these maintenance and monitoring services were offered 24 hours a day, 365 days a year. This innovative online service support was a precedent of the current connected services.



2005



**MAZATROL
MATRIX**

2011



**OPTIPLEX
3015 Fiber**

2001

Tomohisa Yamazaki
appointed president

2006

**Established
World
Technology
Center**



2004

**DONE IN ONE
concept introduced**

DONE IN ONE, which means all machining processes performed by one machine, was introduced as a concept that represents the ultimate process integration pursued by Mazak. This idea is also reflected in the current development of hybrid multi-tasking machines.



2006

**Started operation of
Minokamo Plant 2**



2008

**Started operation of the
Yamazaki Mazak Optonics
Corporation underground factory**



**Established World
Parts Center**



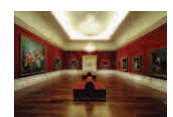
2009

**Established World
R&D Center**



2010

**Opened the Yamazaki
Mazak Museum of Art**



2013

**Started operation of the
Liaoning Plant in China**



2017

**Converted Oguchi
Plant to
an iSMART Factory**



First Mazak iSMART Factory, which realizes sophisticated digital manufacturing using leading-edge IoT and automation technologies, in the MAZAK Corporation US plant. Completed the conversion of the Oguchi Plant into an iSMART Factory in 2017 and then applied it to production plants across the world. The factory not only demonstrates the effectiveness of state-of-the-art technologies and new manufacturing concepts but also develops various IoT and automation solutions in the form of new products and services.

2018

**Started operation of
the Inabe Plant**



2019

**Scheduled opening of the
Yamazaki Mazak Museum
of Machine Tools**

