

T-n e w s

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New Year's Message



I would like to thank you for your business during the past year, and extend to you our greetings for a prosperous New Year.

Despite concerns that the manufacturing industry may experience a slump due to a stagnating world economy, a steady domestic demand pushed by capital investments enabled us to maintain steady results throughout 2016. This is because of the continued support of our customers who appreciate our products and I'd like to take this opportunity to express my sincerest gratitude to all of you.

At JIMTOF 2016 held last fall, exhibitors presented new technologies such as communications management technology that aggressively adopt IoT technology and evolved versions of additive manufacturing (AM)*. These new technologies generated buzz and made the trade show a great success.

At our booth, we presented new machining technologies by demonstrating skiving as well as fiber laser cutting, and received positive responses from visitors.

Also last year, we newly established the FA System Department, which will take on proposals for automated production lines using robots and modifications of existing machines. As we are now capable of providing even higher value-added production equipment, we are confident in achieving results that will exceed your expectations.

As for globalization of the company, we are making steady progress in establishing affiliate companies in Mexico and Vietnam, both of which are developing rapidly. By this, we will further enhance the structure of our global operations.

Last but not least, I wish you good health and success in the coming year and always.

* A method for fabricating objects by adding layer upon layer of material. (Additive layer manufacturing)



President
Kiyoshi Takamatsu



This year we will propose an even fuller lineup

Full Line Up

*Some photos show machines with special specifications.

Display of Main Attachments

12 Number of turret stations	Gang type	Y-Axis control	Spindle C-Axis Indexing	Spindle indexing (Electrical/Mechanical)	Power tools
Sub-spindle	Tailstock	CE type	Environmentally friendly design* *Environmentally friendly product including energy efficient oil-less design in small footprint.		

Xseries

1-spindle 1-turret



This is a 6-inch machine that carries the DNA makeup of the TAKAMAZ X-10 model. For a machine with an automation loader, it is characterized by its space-saving design without sacrificing floor space.

XC-100



6 Inch



Our accumulated production count is a proof of reliability. This is TAKAMAZ standard that has evolved as single lathes.

The top of the line, 6-inch general-purpose lathe with a wealth of option specifications, such as tailstock and milling specifications, that carries the DNA makeup of the TAKAMAZ X-10 model.

XL-100



6 Inch(8 Inch)



This is an 8-inch class general-purpose lathe. Its 1.85m floor space achieves the same level as previous 6-inch class machines. It is characterized by an angled slide construction and high rigidity.

XC-150



8 Inch



Starting with the highest in the 8-inch class ϕ 20mm milling capability, this machine has the advantage of increased shaft size and increased power capable to shorten cycle times.

XL-150



8 Inch(10 Inch)



8-inch class, achieving heavy cutting + a variety of compound machining for long shaft work to a maximum of ϕ 340mm, and 720mm maximum length. In addition, a 10-inch chuck, sub-spindle, and tail stock can be mounted as options.

XL-200



8 Inch(10 Inch)



Mounted with a 5-inch sub-spindle, it is suitable for a wide range of automated production needs, from bar work to chuck work.

X-120



Main:6 Inch Sub:5 Inch



Shaft Cutting Machine

Greatly contributes to the shortening of tact times through simultaneous machining with twin slides, and achieves long-dimension work compatibility through a servo tail, high operability with a 370mm shaft approach, and high productivity.

X-S700



8 Inch(10 Inch)



An 8-inch, twin-turret machine specializing in 450mm-size shaft machining. Holds a high rigidity capable of heavy duty cutting and maintaining accuracy for an extended period of time. Various options are also available including a tailstock and a steady rest unit.

XTT-500



8 Inch(10 Inch)



NEW

XD series

2-spindle 1-slide



This is equipped with two high-precision collets made by TAKAMAZ. The tool slide can be selected from a gang type and turret type, and it is possible to achieve high-efficiency production states.

XD-8(t) PLUS



A cutting-edge design aiming for a zero sec loading time as a nonstop cutting machine.



This is a 6-inch chuck lathe that uses a structure with two spindles and one turret, and has a rich history of achieving zero loading time.

XD-10i



XW series

2-spindle 2-slide



This is a 2-spindle lathe that corresponds to a 4-inch shaft, the same machine space as our well-regarded XW-30. Compared to the previous version of this machine, the high-speed loader has been improved, shortening the cycle time, and making possible the mounting of an optional hydraulic cylinder.

XW-30 PLUS



4 Inch x 2

This is equipped with an ultra-fast loader. The two second loading time is the top class in the world.

XW-30



Simultaneous double-side machining and single-process machining collected together within a single unit for complete finishing process. The functions of two units within the space of a single unit.

This is a 6-inch, 2-spindle machine with power tools. A single-tool drive system is used for power tools, which improves the transmission efficiency and enhances the machining capacity. Up to 20 power tools can be mounted, broadening the range of machining possibilities.

XW-60M



6 Inch x 2

This is a 6-inch spindle, parallel-type 2-spindle lathe. As a mid size machine, it is suited for a wide range of production forms. The newly equipped 3-axis high-speed loader achieves a transfer system optimal for the machine, thereby contributing to cycle time reduction.

XW-60



6 Inch x 2

This is an 8-inch spindle parallel-type 2-spindle lathe where a maximum of 20 rotary tools can be mounted. A "vibration damping structure" damping vibration and a "headstock cooling mechanism" suppressing part dimensional changes are integrated that is compatible with process integration by compound machining, and pursuing stable finished product machining and mass production.

XW-130M



8 Inch x 2

This is an 8-inch spindle parallel-type 2-spindle lathe. The shaft is equipped with a standard 11/7.5kW motor in a ø100mm bearing, achieving power cutting capacity.

XW-130



8 Inch x 2

This is a 10-inch spindle parallel-type 2-spindle lathe that is the top-of-the-line of the XW series machines. The cutting capacity has been increased to about 3x over the previous machines, yielding powerful cutting capability with high torque even in low-speed range machining such as in large-diameter flange work. This integrates a "vibration damping structure" and "headstock cooling mechanism" just like the XW-130M.

XW-200



10 Inch x 2

XY series

Multi-turning



This is a 6-inch class machine that can be loaded with sub-spindle, power tools, Y-axis controls, and even sub-turret, achieving compound product machining.

XY-120 PLUS



Main: 6 Inch Sub: 5 Inch

2 spindle and 2 turret are able to cast off processing methods with ease. Compound machining available with short cycle time.

Capable of bar work up to Max. ø65mm and of performing compound machining driving 24 power tools with combined #1 and #2 turrets.

XY-2000 PLUS



Main: 8 Inch Sub: 8 Inch

GSL series

1-spindle 1-turret



This is a 6-inch machine pursuing the ultimate in cost performance. Its compact design takes up little floor space, with a machine width of 1,400mm and depth of 1,250mm. It combines a "practicality" and "durability" that can be used with confidence, even overseas.

GSL-10



6 Inch



Simple machine that focuses on cost performance as well as ease of use.

The latest addition to the GSL series popular for its excellent cost performance. By further pursuing rationalization, this model achieves an even more compact design. Both workability and maintainability are improved, and as an optional feature using IoT, machine data can be monitored.

GSL-15 PLUS



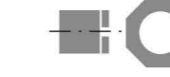
8 Inch



NEW

Skiving Machine

1-spindle 1-turret



A special machine that expands manufacturing possibilities.

This machine specializes in skiving, which achieves a high quality surface finish. The benefits of both cycle time reduction and machine integration can be attained by eliminating the grinding process with this innovative machine. Machine rigidity is heightened to enable skiving, and parts up to ø180mm in size and 370mm in length can be machined.

SKV-8



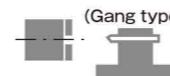
Limited exclusively to domestic sales in Japan

8 Inch



XG series

1-spindle 1-slide



A high-quality compact machine designed for precision turning and ease-of-use.

A 4-inch built-in motor equipped spindle is installed as a standard feature to achieve higher accuracy and shorter spindle acceleration/deceleration time. The machine width is only 780 mm, which makes the loader transfer distance short and therefore the line width short, contributing to the reduction of installation space and cycle time. (Machine width without loader: 1,308mm)

XG-4

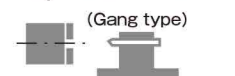


4 Inch



USL series

1-spindle 1-slide



This is a super-slim lathe with a machine width of 480mm. It can be effectively used with 1/3 of the space of conventional machines.

USL-480



3 Inch

WAVE series

1-spindle 1-slide



A gang type lathe which is a remodeled version of J-WAVE. Highly effective when machining with short takt times.

J-WAVE PLUS



4 Inch

NEW

TURN series

1-spindle 1-slide



This uses a gang type table structure and has the flexibility to mount a grinding unit.

TOP-TURN II



6 Inch (8 Inch)



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Providing High Value-added Products to the U.S. Market

Established in 1986, UNYTITE, INC. began production in America in 1990.

Today, leveraging its technologies for hot forming, cold forming, and hot/cold combination forming, the company provides parts to a wide range of industries including the automotive and construction equipment industries.

The company also provides value-added products by performing lathe machining and grinding on formed parts, and then assembling them.

Please tell us about UNYTITE, INC.

We were established in 1986 to sell industrial nuts, bolts, and screws. Subsequently in 1990, we started production as well. In 1995, we decided to start manufacturing automotive parts by forming blanks at near net shape and machining them by lathe. For this, we adopted TAKAMAZ lathes as our very first machines upon comprehensive evaluation of performance, cost, and other features. We began discussing specifications in 1995 and adopted the X-10 and X-15 in 1996. In the following years up to 2016, we have adopted approximately 40 units. Currently, we are active as a forged functional parts manufacturer in the automotive industry and as a fastener manufacturer in the building engineering industry.

We believe our mission is to provide satisfaction and joy through our business activities to our customers, business partners, employees, and all other people related to our company. Our commitment is to engage in manufacturing at the highest standard possible, provide products and services that satisfy our customers, and be a company that can respond globally to diverse customer needs.

In addition, we aim at building an organizational structure that can flexibly respond to various needs, while consciously acting with speed to stay in line with the drastically changing economic and social conditions.



Highly productive manufacturing line composed of TAKAMAZ machines

Please share your impressions of TAKAMAZ machines.

Among the equipment we have adopted, we are especially satisfied with the excellent usability of the compactly designed general purpose lathes, X-10 and X-15, which we adopted in 1996; there has been no serious trouble with these machines over the past 20 years. While the types of parts we cut have changed over the years, the machines are still operating today. This January, we plan to adopt the XL-100 as their successor.



From right : Executive Vice President Mr. Atsushi Hashimoto
Vice President of Production Mr. Jeff Swanson
Senior Coordinator Mr. Yuji Ozeki
Machining Supervisor Mr. Ron Pioli
Chief Machining Engineer Mr. Yuki Mochida

What are your impressions about the activities and services provided by our sales staff and service staff?

Also, do you have any requests or expectations for TAKAMAZ?

We are extremely satisfied with their services and have built a good business relationship with them. Many of the service staff members are fluent in English and they communicate well with our staff members.

In the past few years, there has been a rise in components that require machining by advanced, high performance lathes. We hope TAKAMAZ will enhance its system so that we can share each other's information and engage in projects for machining difficult parts together as a team. We also have expectations for further development of the compactness and productivity of TAKAMAZ machines which are their strong points.



Products of UNYTITE, INC.
The company's products are highly regarded for their good quality.

【Comment from Sales Representative】

We are all grateful for the friendliness of the UNYTITE, INC. staff members. We will continue to make every effort to assist your company's growth.

TAKAMATSU MACHINERY USA Inc.(TMU) Vice President Akinobu Honda



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Exhibit at JIMTOF 2016



Visitors listening intently to the explanation of laser cutting by the XY-120 PLUS



Our entry that won the Best Award: Shrine - Yashiro

JIMTOF 2016 (The 28th Japan International Machine Tool Fair) was held for six days at Tokyo Big Sight last year from Nov. 17 to 22.

In addition to the new XTT-500 and GSL-15 PLUS, we exhibited the SKV-8 skiving machine and the XY-120 PLUS which features a laser cutting unit. With our display focusing on machines that open up new machining possibilities, our booth was very lively and approximately 3,500 visitors stopped by during the six days.

We also won the Best Award with our entry to the Monozukuri Contest which was held at JIMTOF and organized by the Japan Precision Machine Association.

Overall, JIMTOF was very fruitful, and we would like to express our sincere gratitude to everyone who took the time out of their busy schedule to visit our booth.

Implementation of On-site Service Training

We implemented on-site service training across the nation last year for customers by request and our own employees. This training is provided by the Service Section staff of our Headquarters who actually go to the site and give lectures on maintenance tasks. The purpose of this program is to enhance our customers' skills and knowledge for maintenance and to ensure that our service staff members of all locations have an equal level of skills. We will continue implementing this program this year as well, and plan to dispatch experienced service staff members from our Headquarters to interested customers in order to share the skills and knowledge of high quality maintenance work. Please feel free to contact your sales representative to request for this service.

For the purpose of enhancing and expanding our services and enabling our customers to use our products without any concern, we will continue to implement various programs.

TMU Members Take Part in the Chicago Marathon

To enhance workplace friendship, we members of TMU (the TAKAMAZ U.S. affiliate) participated in the Chicago Marathon held on Oct. 9, 2016 in Illinois, U.S.A. An internationally famous marathon race, the Chicago Marathon is held annually on the second Sunday of October and participated by approximately 40,000 world-class and amateur runners.

Running through the downtown area and between the skyscrapers of Chicago, all TMU members completed the 42.195km course. Leveraging this experience and the stamina we developed through the race, we will open up the vast U.S. market.



Employee Introduction

Let's introduce some employees working at TAKAMAZ.



TAKAMAZ MACHINERY EUROPE GmbH(TME)

Michaela Seibel
(Joined the company in 2012)

As a secretary, I support a diverse range of tasks here at TME. For example, I correspond with customers in all regions of Europe, manage parts sales and inventories, provide daily life assistance for the local Japanese staff members, and perform accounting tasks. Although five years have passed since I joined the company, I still have new experiences almost every day.

I have been learning new Japanese words and feel that TME is enabling me to grow as a person. On my days off, I enjoy reading, watching movies, going to restaurants with friends, and cycling.



OVERSEAS BUSINESS ASIAN MARKET

Nobuhiro Takamatsu
(Joined the company in 2008)

I perform sales activities in Korea and other Asian countries. I also provide simple services from time to time as I used to perform cutting tests at the Sales Engineering Section. Although my abilities as a salesperson are not top notch yet, I always try to look at things in a positive light and to make the best customer-focused proposal possible with the help of my superiors. It is because of the many things I learn from our customers that I am able to serve as a salesperson today. In terms of the areas I serve, I am especially grateful to our Korean users since many of them repeatedly purchase our products.

Local Area Introduction / TAKAMAZ MACHINERY (HANGZHOU) CO.,LTD.

China (Hangzhou)



The West Lake in Hangzhou and the Bai Causeway built on the north side of the lake

Home to more than 1.35 billion people, China boasts a vast land area and has a vigorous manufacturing industry backed by the world's largest population. Also called "the world's factory," numerous companies from around the world have expanded their business into China. However, there has been a strong trend toward automation in recent years due to the sharp rise in labor costs. Many Chinese people have the temperament to do everything to help their fellows and to accomplish any task given to them. My impression is that many of them are honest and straightforward.

Recommended Spot

Jiuzhaigou



Located in the northern part of Sichuan province in southwest China, Jiuzhaigou is a valley covered by virgin forests. Famous as one of the most scenic sites in China, there are over 100 lakes and marshes of all sizes at the site. Changing its color through the day from blue in the afternoon to burning orange in the early evening, the breathtaking view of the miraculous Jiuzhaigou has been inscribed as a World Heritage Site. This area is also known as a habitat of the giant panda.

Recommended Eats

Dongo pork



Flavored with soy sauce, sake, and sugar, this dish is made by simmering thick pork belly pieces (with skin left on) for a long time. It is said that the Japanese dish buta no kakuni (literally "square-simmered pork") and the Okinawan dish rafute derive from Dongo pork. Sweet and salty, the flavors are condensed in these soft pork pieces. The pork pieces are so tender they seem to melt in your mouth. This is a famous local dish of Hangzhou where our office is located.

TAKAMAZ

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Famous Car Collection

Subaru 360



This car was developed by applying technologies used for aircraft. It was released in 1958 and was affectionately nicknamed the "ladybug" from its appearance. In addition to its excellent driving performance despite its small size (16 horsepower, displacement under 360cc), this car had many attractive features including its low cost compared to other models sold at the time and its capacity to seat four adults, the first ever in a mass-produced Kei car.

As can be seen from the fact that there were no major model changes for 12 years after being introduced, this was an exceptional car which created a great sensation in Japan's Kei car market.

Photography by : Motorcar Museum of Japan
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