

T-n e w s

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2020 Winter

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Famous Car Collection
MAZDA 787B
(1/18 scale)





New Year's Greeting

Happy New Year! I would like to congratulate you on the New Year. Thank you very much for your patronage throughout the past year.

Last year, a significant decline in orders in the machine tool industry due to deterioration in the domestic and overseas capital investment environment as a result of trade friction between the U.S. and China became a hot topic. At TAKAMAZ, however, despite a fall in the volume of orders the production department is in full swing due to the establishment of a production system that can deal with orders received from the previous fiscal year. We want to reassure customers who are waiting that the machines will be delivered to you in sequence.

In the product lineup, we announced the XV-3, which is equipped with three spindles in a single machine to realize energy savings and manpower savings, and the XT-8, whose forte is large-diameter workpieces. We will continue to pay attention to trends in advanced technologies such as IoT, and continue to stock products that can meet a wide range of customer needs. Overseas, especially in Southeast Asia, the need for automation at production sites is rapidly increasing, and circumstances where we can demonstrate the technologies and know-how we have built up continue to arise. We strongly support the production activities of local customers in various regions around the world, including the United States and Europe.

In order to strengthen production capacity in preparation for these business developments, we will start the construction of a new plant in April this year at 4 chome in Hakusan City, near the head office. We would like to transfer the functions of the final assembly process and product inspection by the customer to this new plant, and to have it serve as a new face of our company.

In closing, for my New Year's Greeting I would like to extend my best wishes for your health and continued development.

Soichiro Takamatsu, President and CEO



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	Built-in Spindle motor	Spindle C-Axis Indexing	Spindle indexing (Electric/Mechanical)
Power tools	Sub-spindle	Tailstock	CE type	Environmentally friendly design ※ ※Environmentally friendly product including energy efficient oil-less design in small footprint.	

XV series Next-generation mode of production realized by the inverted vertical format.

X series This is a best-selling machine built on a wealth of experience: TAKAMAZ's evolving standard model.

3-spindle 3-slide

NEW

XV-3

Three spindles are installed in one unit. Various machining is possible from turning to drilling with power tools. Processes can be compiled as required in a 1-1-1, 1-1-2, 1-2-2 or 1-2-3 pattern. In addition to saving the labor involved in setup changes, it also offers ease of maintenance and space savings, and can reduce total costs.

3-4 InchX3

1-spindle 1-turret

NEW

XT-8

We have added specifications that can deliver high torque during medium and low-speed machining, and robust heavy cutting capability with large-diameter chucks and large-diameter workpieces. A new operating system has been adopted, where the IoT automatically stores the operating status, allowing preventive maintenance. Advanced operability and cutting capabilities, including the ability to change the standard octagonal turret to a 12-station turret as an option, have achieved high productivity.

8 Inch

XT-6M
<The successor to XL-100>

Capable of mounting six power tools. Side boring, keyway grooving and other compound processes can be performed on workpieces up to 240 mm long by efficiently integrating processes.

6 Inch(8 Inch)



XC-100

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.

6 Inch

XT-6
<The successor to XL-100>

Shortens cycle times by increasing rapid traverse speeds (X axis: 18 m/min, Z axis 24 m/min). In addition to the Z loader, the new-type FC loader that emphasizes operability and high speed can be selected. A touchscreen (option) for improved operability is also installed, while IoT technology that promotes "visualization" can also be supported.

6 Inch(8 Inch)

XC-150

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.

8 Inch

XL-150

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

8 Inch(10 Inch)

XL-200

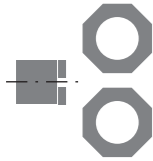
8-inch class, achieving heavy cutting + a variety of compound machining for long shaft work to a maximum of $\phi 340$ mm, and 720mm maximum length. In addition, a 10-inch chuck, sub-spindle, and tailstock can be mounted as options.

8 Inch(10 Inch)

Xseries

Shaft Cutting Machine

1-spindle 2-turret



X-S700

Greatly helps to shorten takt times through simultaneous turning with twin turrets, and supports long workpieces with the servo-driven tailstock. Also improves operability with an approach distance to the spindle of 370 mm.



8 Inch (10 Inch)



XTT-500M

This is a compound precision lathe featuring power tools on upper/lower twin turrets as standard. A total of eight power tools can be mounted on the upper and lower turrets, expanding the range of machining. Workpieces with a turning diameter of up to ϕ 210 mm and length of up to 400 mm can be handled.



8 Inch



XTT-500

An 8-inch, twin turrets 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.



8 Inch (10 Inch)



XDseries

2-spindle 1-slide



XD-8(t) PLUS

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.



5 Inch

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

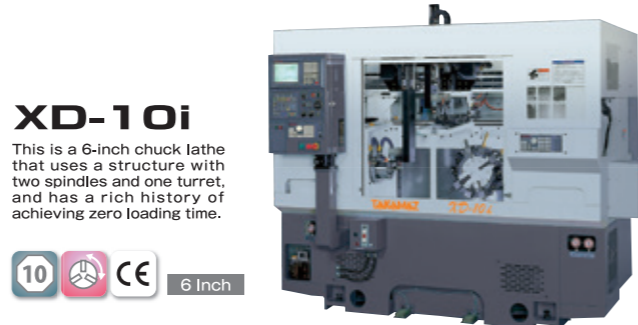


XD-10i

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.



6 Inch



XWseries

2-spindle 2-slide



XW-30 PLUS

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.



3-4 Inchx2

XW-30

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



3 Inch(Air)x2

XW-60M

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.



6 Inchx2



XW-60

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.



6 Inchx2

XW-130M

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.



8 Inchx2



XW-130

This is an 8-inch spindle parallel-type 2-spindle lathe. The shaft is equipped with a standard 11/7.5kW motor in a ϕ 100 bearing, achieving power cutting capacity.



8 Inchx2

XWT-10

In addition to featuring two 10-station turrets and an expanded tool capacity, the Z axis is lengthened and the largest O.D. turning area in the XW series is secured. The machine can also handle workpieces that require simultaneous machining on inner diameters at depth. High-rigidity linear guides are adopted for each of the slides so that smooth linear motion is obtained even under high load conditions, giving stable machining accuracy.



10 Inchx2



XW-200

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.



10 Inchx2

XYseries

Multi-turning



XY-120 PLUS

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.



Main:6 Inch Sub:5 Inch



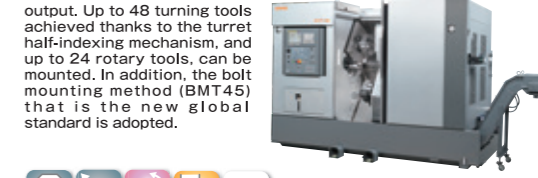
2 spindle and 2 turret are able to cast off processing methods with ease. Compound machining available with short cycle time.

XYT-51

Suited to heavy cutting of large bar material, etc., with improved machining capability thanks to increased motor output. Up to 48 turning tools achieved thanks to the turret half-indexing mechanism, and up to 24 rotary tools, can be mounted. In addition, the bolt mounting method (BMT45) that is the new global standard is adopted.



Main-Sub:6 Inch

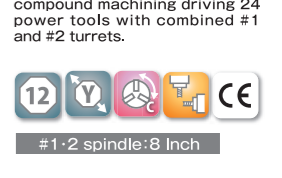


XY-2000 PLUS

Capable of bar work up to Max. ϕ 65mm and of performing compound machining driving 24 power tools with combined #1 and #2 turrets.



#1-2 spindle:8 Inch



GSLseries

1-spindle 1-turret

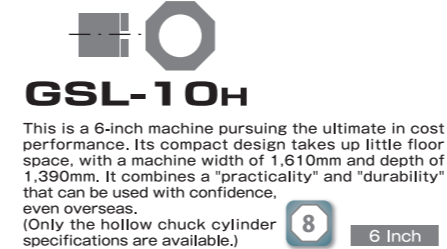


GSL-10H

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 1,610mm and depth of 1,390mm. It combines a "practicality" and "durability" that can be used with confidence, even overseas. (Only the hollow chuck cylinder specifications are available.)



6 Inch



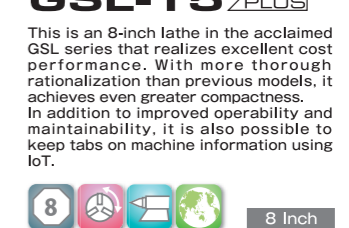
Simple machine that focuses on cost performance as well as ease of use.

GSL-15 PLUS

This is an 8-inch lathe in the acclaimed GSL series that realizes excellent cost performance. With more thorough rationalization than previous models, it achieves even greater compactness. In addition to improved operability and maintainability, it is also possible to keep tabs on machine information using IoT.



8 Inch



Skiving Machine

1-spindle 1-turret

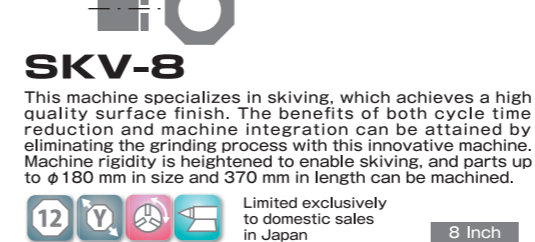


SKV-8

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 ϕ 180 mm in size and 370 mm in length can be machined.



8 Inch



A special machine that expands manufacturing possibilities.

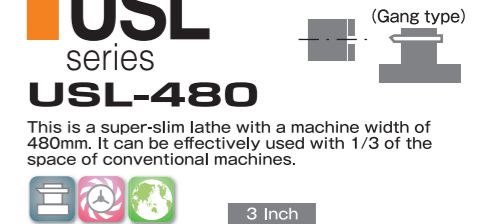
USLseries

USL-480

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.



3 Inch



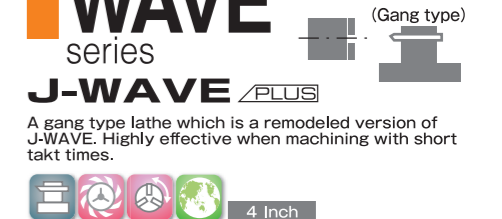
WAVEseries

J-WAVE PLUS

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



4 Inch



XGseries

1-spindle 1-slide

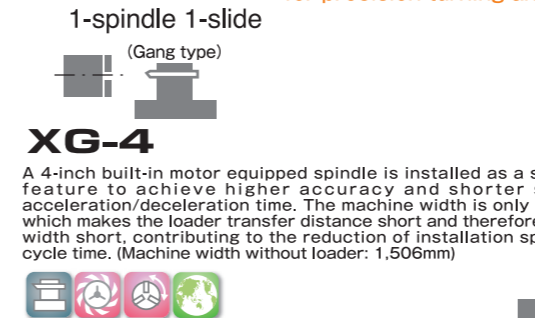


XG-4

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: 1,506mm)



4 Inch



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

TURNseries

TOP-TURN II

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



6 Inch (8 Inch)



TAKAMAZ sells MECTRON INC. and Fair Friend Group (FFG) products, as well as products of 37 brands from around the world. Please feel free to contact your nearest TAKAMAZ office for more information.
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User Report MARUEI VIETNAM PRECISION Co., Ltd.

Manufactures small precision parts for automobiles destined for Asian countries including Japan. By improving productivity, they can provide high-quality, low-cost parts.

Established in Ho Chi Minh City, Vietnam in 2001 as a local subsidiary of Maruei Industries Co., Ltd. As the largest production base in the Group, the company provides high-quality products at low prices to users all over the ASEAN region and in Japan.

Please tell us about your company.

Our company was established as a Vietnamese subsidiary of Maruei Industries Co., Ltd. in Ho Chi Minh City in 2001 and started manufacturing products at the current location in 2002. We manufacture mainly small precision parts used in automobiles, and aim to be a manufacturing company known for being "great as expected". We are one of the largest production bases in the group company, have many hardworking and excellent personnel, and have received high praise from many users about the price and quality of our products.

When did you start dealing with us?

We started production in 2002. The parent company in Japan had already installed TAKAMAZ machinery, and we had confidence in its productivity, operator-friendliness and ease of maintenance. To launch the overseas production base quickly, we asked for introduction of the same models of machines as at the parent company.



Inside the plant with rows of customized MVP-6 machines designed for working convenience and operator safety.

What were your impressions after introduction?

Initially we started production using machines with exactly the same specifications as those in Japan, but since many of our operators are women, the height of the normal machines blocked their field of view and there were problems in terms of working convenience and safety. To address this we consulted TAKAMAZ to make the machines lower so that female operators could use them more easily, and they developed a special specification of the MVP-6 with a height of 1,300 mm for us. Thanks to this, we have been able to create a work environment that makes it easier for operators to work, and production efficiency has improved.



Chairman Hiroshi Ura (right) and President Kazutoshi Ohara (left). The bright and clean office was renovated based on the recommendations of female employees.

How is the service from the sales staff and service staff at TAKAMAZ?

It helps that they visit us regularly. When considering manufacturing a new product, we sometimes consult them about the setup for it and whether the machine specifications or parts need to be changed, and we receive appropriate advice. We have also received wide-ranging support while exchanging opinions with them when considering equipment for production planning, and day-to-day maintenance. Another reassuring point is that their office is nearby, so they can respond immediately when we need help.

What are your future goals?

Currently, we mainly manufacture automotive-related parts, but in the future we would like to take on new challenges, such as the development of electronic devices and management software, and the development of items related to factory operations.



Some of the workpieces the company manufactures

[A word from sales]

We have now delivered over 300 units of TAKAMAZ machinery to you. We will continue our efforts to help your company develop further by exchanging useful information with you.

TAKAMATSU MACHINERY VIETNAM CO., LTD KAZUYA YOSHIMURA



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The First Exhibition and Lecture at the Tsubamesanjo Manufacturing Messe



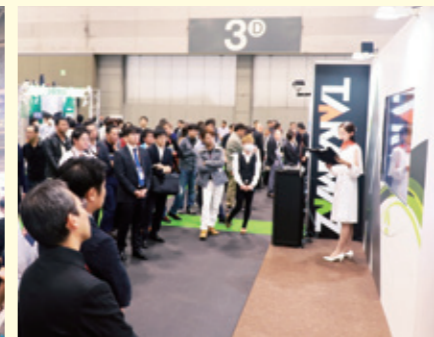
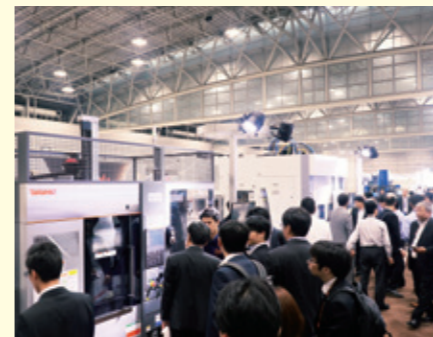
We exhibited for the first time at the "Tsubamesanjo Manufacturing Messe 2019", an exhibition held on October 17 and 18, 2019 where characteristic products and various machining equipment from the Tsubamesanjo area were brought together under one roof. We exhibited the XT-6, a one-spindle one-turret machine, and many customers involved in metal processing in the local area viewed it. In addition, at the presentations by the exhibitors, the General Manager of the Sales Department Kazuya Sawayama promoted our technology by giving a lecture entitled "High Efficiency Machining on NC Lathes".



Exhibited at MECT2019

MECT2019 (Mechatronics Technology Japan 2019) was held at Port Messe Nagoya from October 23 to 26, 2019. We debuted the XV-3 inverted vertical CNC lathe, a new product that integrates three machining units, and the XT-8, an 8-inch precision lathe equipped with a new loader to improve productivity. We also showed hobbing using the XYT-51 compound machining lathe, an automated system comprising the VL3 DUO manufactured by EMAG of Germany linked to a stocker, and a general-purpose lathe

from the FFG Group, making a total of 5 units. The total number of visitors during the MECT2019 exhibition period was about 90,000, and many customers viewed our new models in particular. We will continue to provide products that will help our customers with their manufacturing. We would like to express our sincere gratitude to everyone who took time out of their busy schedules to visit the TAKAMAZ booth.



Employee Introduction

Let's introduce some employees working at TAKAMAZ.



Domestic Sales Department
Osaka Branch
Yuta Hirashima
(Joined the company in 2017)

I am engaged in sales and service operations in the Kansai area. When I joined the company, I was worried because there were many things that I did not understand since I had no experience of repairing machines. However, I feel that the appeal of this job is becoming able to find solutions in more areas as my experience grows, and I can make use of this in sales activities. I will continue to do my best to increase my knowledge so I can give something back to the customers, and I ask for your support.



TAKAMAZ MACHINERY
VIETNAM CO., LTD
NGUYEN THI HOP
(Joined the company in 2017)

I handle import and export procedures and quotations for parts, and accounting and general affairs. I was very happy when a customer told me that the shortened delivery time of the parts I ordered had been helpful. I can learn new things every day not just from the company but from the customers as well, so I will continue to do my best to increase their trust in us while feeling a sense of gratitude to them.

Regional Focus

PT. TAKAMAZ INDONESIA (PT.TI)

Indonesia (Tambun Bekasi)



Navigator

PT.TI
Shinichi Tokuno

Indonesia consists of more than 17,000 islands. Its capital is located in the Special Capital Region of Jakarta on Java Island. In recent years there has been chronic traffic congestion there, and infrastructure has been rapidly developed to resolve the issue. A part of this is maintenance of the underground railway system, called the MRT: this is a project that Japan fully supported from the investigations at the planning stage through to construction and the deployment of the trains, and it serves as the citizens' means of transport. You can trust TAKAMAZ with support for projects in Indonesia, a country with deep ties to Japan.



Monas is a 132-meter-high independence monument in the center of the capital Jakarta.

Recommended Spot

Jomblang Cave



A much talked-about tourist attraction right now is the Jomblang Cave. It is popular because you can enjoy activities and fantastic scenery there. At the end of a dark side tunnel reached by rappelling 70 meters down a sheer cliff there is a popular site for photographs where a shower of light pours down. It is a sight that can only be seen around noon, the number of visitors per day is limited, and booking is on a first-come, first-served basis, so you are recommended to book early.

Recommended Eats

Satay



This is a dish where chicken, beef and other ingredients are thoroughly marinated in a spicy sauce then skewered and fragrantly cooked over a charcoal fire. There are similar dishes in every Southeast Asian country, but it is said to have originated in Java. Have it with sweet peanut sauce for a deep sweet and spicy taste. It is easy for children as well as adults to eat, so please try it.

TAKAMAZ

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Famous Car Collection

MAZDA 787B (1/18 scale)



In 1991, the Mazda 787B was the legendary car that won the first overall victory for a Japanese car in the 24 Hours of Le Mans race. The 24 Hours of Le Mans is a grueling race with competition based on the number of laps completed in 24 hours. This big victory over the powerhouse of Europe is still talked about as a historical achievement, including the fact that the Mazda 787B had a rotary engine, and it was the only Japanese car represented until Toyota won the overall championship in 2018.

Photo credit:
High-quality big-scale minicar collector Takanori Tetsuda

