

T-n e w s

Vol. total.165
127

2023 Winter

- ◆New Year's Greeting
- ◆Information/Full Lineup
- ◆User Report/WECO Werkzeugmaschinen GmbH & Co.KG (Germany)
- ◆Topics/Exhibited at JIMTOF2022
 - Introduction of an "a81nx" Horizontal Machining Center
- ◆Employee Introduction



TAKAMAZ



New Year's Greeting

Happy New Year! I would like to extend my best wishes for the year ahead. And I am very grateful to you all for your loyal patronage during the past year.

Last year, although remaining under the influence of Covid-19, we were finally able to resume the work and events that we had been engaged in before the spread of the disease. It was a year that I felt we were finally able to carry on our business in a close to normal way, even though it was still difficult both to visit customers and for customers to visit us. The machine tool industry as a whole received a good volume of orders; although not strictly comparable with the time before Covid-19, I think it was a year where we were able to see brighter prospects.

In April the Asahi Plant started operation, as we had been hoping for. I believe it was very significant that we were able to continue our preparations to start up the Asahi Plant and achieve that goal despite not only our industry but the whole of society being paralyzed and at a standstill due to Covid-19 during the past two years. With the completion of the new plant, it has become easier to communicate to customers what we have been working on so far, and we are now ready to make the next leap forward.

The first real-world staging of JIMTOF in four years in November was also an unforgettable event. We were able to actually show customers the machines and talk to them on site. It was an event that reaffirmed what exhibitions should really be like. I don't mean to be negative about remote environments, but our work consists of people-to-people communication. It was also an exhibition where I realized that there are things that we cannot do except in the real world. Thanks to your efforts, much was expected of us, and many people came to the venue. I would like to thank you all again for that.

On the other hand, we have inconvenienced our customers as a result of steep rises in the cost of raw materials and difficulties in procuring materials. It is a fact that our production system was hampered by various factors including the Covid-19 lockdowns and supply chain disruptions. We will take all possible measures to build a production system that will not inconvenience our customers, without using the circumstances as an excuse. 2023 marks the second year of the three-year Mid-term Plan from 2022 to 2024. The Asahi Plant is in full-scale operation, and I feel that this will be a year where we have to continue to grow together with our customers.

I would like to conclude my New Year's greeting by wishing you all good health and continued growth.

Soichiro Takamatsu, President



Offering a Fuller Lineup Again this Year

*Some photos show machines with special specifications.

Display of Main Attachments



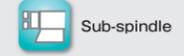
Built-in Spindle motor



Spindle C-Axis Indexing



Spindle Cs-Axis Indexing



Sub-spindle



Tailstock



CE type



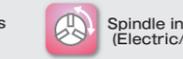
Number of turret stations



Gang type



Y-Axis control



Spindle indexing (Electric/Mechanical)



Power tools



Environmentally friendly design ※
※Environmentally friendly product including energy efficient oil-less design in small footprint.



Scan the QR code to see videos on YouTube.

X series

A best-selling machine with an extensive track record
TAKAMAZ's evolving standard

1-spindle 1-turret



XTs-6

Ultra-compact construction with a machine width of only 1,105mm. Low center of gravity reduces strain on the operator, and speed increases reduce cycle times. In addition to power savings when the machine is stopped and energy savings at the loader (F loader), dimensions can be managed reliably by thermal displacement compensation (option).



6 Inch



XT-8

Capable of more powerful heavy cutting with a large-bore, high-torque spindle as an option. An 8-station (standard) or 12-station (option) turret can be selected.



8 Inch (10 Inch)



XT-8M

Offers a higher level of freedom with tooling because up to 12 power tools can be mounted. Turning performance is on a par with the XT-8, and powerful spindle options can also be selected. High levels of productivity and operability have been achieved through measures including featuring a cleaning function as standard to improve the operation rate.



8 Inch



XT-6

Shortens cycle times by increasing rapid traverse speeds (X axis: 18 m/min, Z axis 24 m/min). In addition to the Si 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)



XT-6M

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

XT-8MY

Supports compound machining of long shafts of up to 300 mm in length. Square slideways are adopted on all axes to achieve a highly rigid structure. While a tailstock specification can also be selected, it boasts the smallest floor space in its class, about 20% smaller than the competitors.



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-200

This 8-inch class machine supports long shaft workpieces up to ϕ 340 mm and 720 mm in length, realizing both heavy cutting and varied compound machining.



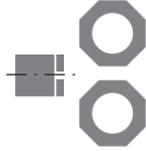
8 Inch (10 Inch)



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.



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.



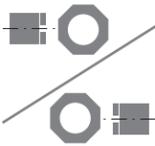
XTT-500M

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 $\phi 210$ mm and length of up to 400 mm can be handled.



XYseries

Multi-turning



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

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



XYT-51

Supports heavy cutting of large bar material, etc. The turret half-indexing mechanism allows up to 48 turning tools and up to 24 rotary tools to be mounted. In addition, the bolt mounting system (BMT45/BMT55) is adopted.



Main-Sub: 6 Inch



XDseries

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

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



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.

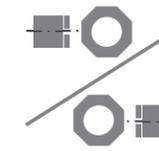


6 Inch



XWseries

2-spindle 2-slide



Simultaneous machining of both sides of a workpiece and simultaneous same-process machining integrated into one machine

XWG-3

The 19-inch touch panel improves visibility and operability during setup. Installation of a new model magazine loader greatly reduces the number of parts. Energy-saving performance is also superior to that of conventional machines. The machine can be installed in the same space as a single lathe, which helps to achieve better production efficiency.



3-4 Inch x 2

NEW



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 equipped 3-axis high-speed loader achieves a transfer system optimal for the machine, thereby contributing to cycle time reduction.



6 Inch x 2

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 $\phi 100$ bearing, achieving power cutting capacity.



8 Inch x 2

XW-200

This is a 10-inch two spindle lathe. Its cutting capacity has been improved by about three times compared to the conventional machine, and it demonstrates strong cutting ability with high torque even in low-speed machining such as with large diameter flange-type workpieces.



10 Inch x 2

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 Inch x 2



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 Inch x 2



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 Inch x 2



GSLseries

1-spindle 1-turret



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

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



GSL-15 PLUS

This is an 8-inch lathe of the GSL series that has been well received for its excellent cost performance. It is more extensively streamlined than the existing machines, achieves further compactness, and offers improved working convenience and maintainability.



8 Inch



Skiving Machine

1-spindle 1-turret



A special machine that expands manufacturing possibilities

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 $\phi 180$ mm in size and 370 mm in length can be machined.



8 Inch



GANG TYPE series

XG-4

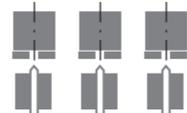


Equipped with a 4-inch built-in spindle motor as standard, this model achieves better machining accuracy and shorter spindle acceleration/deceleration times than the previous model. The narrow-width design shortens the loader transfer distance and reduces the line width, thereby reducing the necessary installation space and cycle times.



XV-3

3-spindle 3-slide

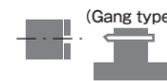


Three spindles are installed in one unit. Various machining is possible from turning to drilling with power tools. Processes can be compiled as required in a 1-1-1, 1-1-2, 1-2-2 or 1-2-3 pattern. In addition to saving the labor involved in setup changes, it also offers ease of maintenance and space savings,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



TOP-TURN II

1-spindle 1-slide

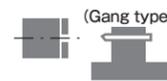


This uses a Gang type table structure and has the flexibility to mount a grinding unit.



USL-480

1-spindle 1-slide

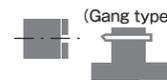


This is a super-slim lathe with a machine width of 480mm. It can be effectively used with 1/3 of the space of conventional machines.



J-WAVE PLUS

1-spindle 1-slide



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



AUTOMATION SYSTEM

ServoROT® A highly-productive robot system that solves your problems!

Reduces personnel costs

A robot integrated with a tray changer realizes unmanned operation throughout the day and night.

Wide range of variations

Needs for washing units, gauging systems and so on can also be met based on this system.

Simple setup

Setup can be completed just by teaching on site.

Retrofitting even to previous models

The system can also be retrofitted to an existing machine provided there is a space of 1.8 x 0.9 meters in front of it.



ADVANCED TECHNOLOGY

T-support System®

Thermony® Patented

This system predicts the amount of thermal displacement at each part of the machine and provides compensation values to the CNC controller.

Spimony® Patented

This system diagnoses machine faults by monitoring the spindle status based on the "characteristic space common among machines".

OPERATING SYSTEM

F Loader System

Realizes high productivity through increased loader speed and shorter machine stoppage times

Shorter setup times by functions unique to TAKAMAZ

Loader speed optimization function for energy savings and longer service life

A touch panel giving exceptional operability and a servo system made by FANUC are adopted

TAKAMAZ OS

Functions for better working efficiency are installed on NC screens

- Keeping track of production progress

- Display of start conditions

- Machine stoppage warning

- Camera image display (Option)

Work simplified by automation of operations and network function

- Quality control through storage of traceability data

- Programs can easily be input and output between machines by on-screen operation.



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.

[Manufacturers We Carry]

-FEELER(Taiwan) -LEADWELL(Taiwan)
-ECOCA(Taiwan) -MECTRON INC.(Japan)
-Ikegai Corp(Japan) -MAG(Germany) and many more

F.T.Japan Co., Ltd.

TEL +81-(0)76-274-1988 FAX +81-(0)76-274-8530



TAKAMAZ EMAG deals with all EMAG products from Germany. Please feel free to contact us if you have any questions.

TAKAMAZ EMAG Co., Ltd.

TEL +81-(0)76-274-1409

FAX +81-(0)76-274-8530



WECO Werkzeugmaschinen GmbH & Co.KG (Germany)

Selling Japanese Companies' Machine Tools in the European Market Relationship of Deep Trust as a General Distributor in Germany

Since its establishment in 1999, the company has been selling mainly machine tools, such as CNC lathes, made by companies in Japan and Taiwan. It has built a cooperative relationship with TAKAMAZ as a partner in Germany for more than 20 years, and is a strong ally for product sales in the EU market.

Tell us about your company's business

We sell machine tools such as CNC lathes and machining centers, as well as their automation systems, with German companies as our customers. In addition to our own brand, we have a wide range of products by Japanese and Asian manufacturers. In particular, we have been serving as the general distributor of TAKAMAZ products in Germany since February 2021.

Why do you focus on TAKAMAZ products?

In Germany, the EU's largest manufacturing power, the level of performance required of machine tools is extremely high. However, Japanese-made machine tools have high accuracy and quality, and have the level of excellence to meet such strict requirements.

Among them, TAKAMAZ products are attractive because they offer machining in a compact construction and automation of production lines. As for how we started trading them, we visited JIMTOF because we wanted to handle Japanese manufacturers' machines, and when we saw the actual TAKAMAZ machines we fell in love with them and contacted the

European distributor at that time. We not only sell machine tools, but also put our efforts into after-sales service after delivery, and automation tailored to the customer's needs. The added value of TAKAMAZ machine tools makes them perfect products. They're truly ideal machines.



Architectural rendering of the new office that we will move into this spring. It features a spacious showroom.

What is your impression of TAKAMAZ as a company?

The products are great, and I also have an overall positive impression of the TAKAMAZ personnel involved with them. You are always quick to respond to requests and inquiries, whether from our sales personnel or engineers, and we are confident that you will give smooth feedback on issues that arise on site. It is also helpful that you listen carefully to the customers' wishes and respond flexibly. Customers in Europe, especially in Germany, look very



(From left to right)
WECO Werkzeugmaschinen GmbH & Co.KG
Director Mr. Katsunori Mizubayashi
CEO Mr. Sebastian Bordt
President Mr. Rudolf Weis
TAKAMATSU MACHINERY CO., LTD. General Sales Manager Yutaka Tokuno
TAKAMAZ MACHINERY EUROPE GmbH Vice President Akinobu Honda
Service Manager Tomonari Kawakado

critically at the activities of machine tool manufacturers. At one time when TAKAMAZ's sales promotion activities in Germany had quietened down a bit, one customer asked us, "Has TAKAMAZ left Germany?". We hope that the advantage of being customer-focused and responsive will continue in order for TAKAMAZ to become even more visible in the highly competitive European market.

Please tell us what you would like to do as a distributor in the future and any requests you have of TAKAMAZ

We are planning to move to a new office in the spring of 2023. Since the site area will be larger than the current premises, we will increase the number of machines installed in the showroom. At the same time, we will be able to show an example of an automated line comprising multiple machines, which was previously difficult due to space issues. Our corporate philosophy is to sell the machines that our customers want. TAKAMAZ products are known for good performance in Germany, so if further progress is made with the areas where TAKAMAZ still lags behind the competitors, such as installing a Y2-axis and supporting FANUC loaders, we can appeal much more to our customers here. We will also actively promote and publicize TAKAMAZ products at exhibitions and open house events to spread the word about the quality of the products.

[A Word from Sales]

We are very grateful to WECO for their friendly manner. We will continue to do whatever we can to support the growth of your business.

TAKAMAZ MACHINERY EUROPE GmbH Akinobu Honda

WECO Werkzeugmaschinen GmbH & Co.KG

Founded : 1999

Location: Im Neuneck 11 D-78609 Tuningen

Tel: +49 (0)74 64 98 504-0

Fax: +49 (0)74 64 98 504-20

URL: <https://weco-werkzeugmaschinen.de/>



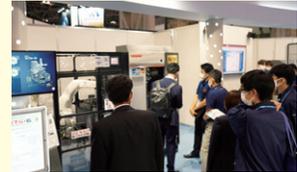


Exhibited at JIMTOF2022



Over the six days from November 8 to 13, 2022, the 31st Japan International Machine Tool Fair (JIMTOF 2022) was held at Tokyo Big Sight in Koto Ward, Tokyo. It was the first real-world staging of the exhibition in four years. We offered new models with excellent energy-saving features, such as the XTS-6 and XWG-3, as well as an automation system that connects the ServoROT—a highly-productive robot system—and a conventional machine. We also held workshops and introduced new automation solutions.

The total number of visitors to this JIMTOF was about 110,000, which was not as big a turnout as before the Covid-19 pandemic, but many customers came to our booth and actually saw TAKAMAZ products. We would like to express our sincere gratitude to all those who came. We will continue to develop new technologies and make every effort to provide proposals that make further contributions to energy savings and productivity improvements.



Introduction of an “a81nx” Horizontal Machining Center

In August 2022, a new “mother machine”, a horizontal machining center made by MAKINO, was introduced at the Head Office. The special characteristic of this equipment is that it is capable of long periods of unmanned operation with automatic transfer because it can stock tens of parts to be machined that are set in fixtures in advance. We aim to improve production efficiency even further, with a view to shortening lead times and producing high-accuracy, high-quality products.



Employee Introduction

Let's introduce some employees working at TAKAMAZ.



TAKAMAZ EMAG Co., Ltd.
Yuka Takada
(Joined the company in 2022)

I receive customer part quotations and order requests from the sales division of Takamatsu Machinery and communicate with EMAG, which is based in Germany and China. I didn't know anything about machine tools before I joined the company, so I find it enjoyable to learn about the roles of parts and the functions of products through my work. On weekends and evenings, I watch a variety of movies, both Japanese and Western, via a video streaming service. I would be grateful for any recommendations. TAKAMAZ-EMAG's products excel at process integration, electrochemical machining, laser welding, etc., so I hope that more customers will come to know about the machines' capabilities.



TAKAMAZ MACHINERY EUROPE GmbH
Tomonari Kawakado
(Joined the company in 2007)

I am responsible for the service work provided to customers in Europe, and am in charge of guide staff at exhibitions and guidance for distributors on operating the machines. Whenever an unexpected failure occurs, I feel a sense of achievement when working with the staff at the distributor to determine the cause and repairs are successfully completed. Recently, I have been learning more about Europe through movies and YouTube videos. I am also enjoying learning German and English. I want to be able to communicate with customers better and become more approachable to them for consultation.



TAKAMATSU MACHINERY CO., LTD. <https://www.takamaz.co.jp/>

■ HEAD OFFICE & PLANT 1-8 ASAHIGAOKA HAKUSAN-CITY ISHIKAWA JAPAN. 924-8558
TEL +81-(0)76-274-1403 FAX +81-(0)76-274-8530

TAKAMATSU MACHINERY USA INC.

■ CHICAGO HEAD OFFICE 1280 LANDMEIER ROAD ELK GROVE VILLAGE, IL 60007 USA
TEL +1-(0)847-981-8577 FAX +1-(0)847-981-8599

TAKAMAZ MACHINERY EUROPE GmbH

IM HÜLSENFELD 19, 40721 HILDEN, GERMANY
TEL +49-(0)2103-789-4882 FAX +49-(0)2103-789-4883

TAKAMAZ MACHINERY (HANGZHOU) CO., LTD.

■ HANGZHOU HEAD OFFICE No.6900, JIANGDONG 3RD ROAD, JIANGDONG INDUSTRIAL PARK, XIAOSHAN, HANGZHOU, ZHEJIANG, CHINA
TEL +86-(0)571-8267-9709 FAX +86-(0)571-8215-3732

TAKAMATSU MACHINERY (THAILAND) CO., LTD.

■ BANGKOK HEAD OFFICE 888/59 MOO 9, TAMBOL BANGPLA, AMPHUR BANGPLEE, SAMUTPRAKARN PROVINCE, THAILAND
TEL +66-(0)2-136-7831 FAX +66-(0)2-136-7834

PT.TAKAMAZ INDONESIA

JL. FESTIVAL BOULEVARD BLOK AA 11 NO.30.31 GRAND WISATA TAMBUN, BEKASI 17510
TEL +62-(0)21-8261-6431 FAX +62-(0)21-8261-6430

TAKAMAZ MACHINERY MEXICO, S.A.DE C.V.

AVENIDA DE LOS INDUSTRIALES 522. LOCAL 4. INDUSTRIAL JULIAN DE OBREGON. 37290 LEON. GUANAJUATO MEXICO
TEL +52-477-784-0468

TAKAMATSU MACHINERY VIETNAM CO., LTD

NO.25 NGUYEN LUONG BANG, TAN PHU WARD, DISTRICT 7, HO CHI MINH CITY, VIETNAM
TEL +84-(0)28-5417-3917 FAX +84-(0)28-5417-3919

Issued in January, 2023

TEL +81-(0)76-274-1403 FAX +81-(0)76-274-8530

