

ORANGE NEWS

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Interview on Manufacturing

Exploring new horizons for TAKAMAZ
multi-tasking lathes with the XYT-65Y

WORK&SOUL

Seizan Kinzoku Co., Ltd.

THE SEEDS ARE HERE

Continuing to Take on the Challenge of Advanced Technology
The Relationship Between Professor Yoshitaka Morimoto and TAKAMAZ
information

Exhibited at MEX Kanazawa 2026

Exhibited at the New Environmental Exposition 2026

A Colleague's Favorite Book

TAKAMAZ LEARCATION

The charm of the "Squid Town,"
expressed through a giant squid monument



[Cover photo] Location:
Squid King

This is a gigantic squid monument, 13 meters long,
located in the "Squid Station Mall" in Noto Town.

TAKAMAZ

TAKAMATSU MACHINERY
PR Magazine summer 2026



Assistant Manager of R&D Section
Technical Development Dept.
Shota Shinmoto



Vice President of TAKAMAZ MACHINERY
EUROPE GmbH (hereinafter "TME")
Kenji Murasugi



Chief of Control Development Section
Technical Development Dept.
Tomohiko Matsuda

Exploring new horizons for TAKAMAZ multi-tasking lathes with the XYT-65Y

This issue's "Interview on Manufacturing" was conducted online between Germany - which serves as TAKAMAZ's base for expansion into the European market - and Ishikawa, where our headquarters and factory are located, and we discussed the XYT-65Y, the strategic base machine that will constitute the foundation for the next generation. The interview is full of key insights into the potential of TAKAMAZ multi-tasking lathes both in Europe and Japan.

First of all, could you tell us what led to the development of the XYT-65Y?

Murasugi (Vice President of TME)
I have been stationed at TAKAMAZ MACHINERY EUROPE GmbH (TME) since June of last year and handle sales of machine tools over the whole European region, and the XYT-65Y is being developed based on the needs of the European market. TAKAMAZ is selling a model called the XYT-51, but the specifications of that model provide a Y axis on the upper turret only. However, dual-spindle machines with both upper and lower turrets equipped with a Y axis are standard in Europe, and our German distributor told us that sales would struggle unless we had machines that conformed to this standard, which is

what led to us starting development of the XYT-65Y featuring upper and lower Y axes.

Shinmoto (Assistant Manager of R&D Section)
As Mr. Murasugi said, TAKAMAZ's product lineup to date has not included a sufficient range of models to provide all the must-have specifications when considering multi-tasking lathes, such as models with upper and lower Y-axes, and this had left room for expansion. The development of the XYT-65Y is more significant than simply complementing the existing models, and our vision is a strategic intention to grow with this base model as the core for future product expansion. Since this was the development of a unit for which we had no prior in-house experience, we had to build every process from scratch, from collecting example designs to verifying machined parts and establishing the assembly process. Consequently, the development took a long time, but I believe this was a period of absolutely essential groundwork for the future expansion of our diversified product lineup.



Will the XYT-65Y be a multi-tasking lathe specialized for the European market?

Murasugi
Sales will start in Germany. After completion of the basic design, we've held several web meetings with the local distributor and addressed their requests immediately. Initially, we set the diameter of the through-hole for bar material at $\phi 51$, but due to strong market demand to accommodate larger workpieces, we increased the specification to $\phi 65$. This change expanded the range of workpiece sizes that can be machined, and evolved the machine into a product that can handle more diverse customer needs. The " $\phi 65$ " specification was also incorporated in the product's name. It targets not just the European market but countries throughout the world, including Japan.

Shinmoto
To date, TAKAMAZ has had a proven track record in improving production efficiency through "division of processes", where processes are assigned to multiple machines. However, the recent global shift toward high-mix low-volume production has rapidly increased demand for process integration,

calling for the completion of all machining operations on a single machine. This trend is evident not only in the European market, which has been leading the way, but also in the current Japanese market. We believe that offering a lineup of multi-tasking lathes that can complete multiple processes on a single machine, in addition to our traditional strength in specialized machines, is an essential strategy in order to respond to changes in our customers' production methods, both domestically and internationally. This development is just a starting point. Working from this base model, we intend to respond to requests to handle even bigger workpieces, and for faster and more efficient machining. Our next challenge is how to turn on-site expectations for capabilities to cut faster and more efficiently into reality. How can we add value in TAKAMAZ's unique way while expanding the variety of our products? We will continue to build a lineup that stays one step ahead while listening close to feedback from the market.

How will you deliver the unique TAKAMAZ touch in the development of the XYT-65Y and future multi-tasking lathes?

Shinmoto
Speaking about the XYT-65Y first, this is a model based on the existing XYT-51, with a Y2 axis added on the lower slide. This Y-axis configuration with two systems, upper and lower, has enabled multi-axis simultaneous machining and all-in-one "process integration". To ensure consistent quality in terms of the machining accuracy of parts that have become increasingly complex, we work closely with the production floor and use specialized jigs. The expertise in the design and manufacture of machines specialized for division of processes that we have built up over many years constitutes a major asset in our development of multi-tasking lathes. By incorporating this insight into the unit to maximize its performance, we are seeking to increase the overall potential of the base model and expand the lineup to meet the wide range of needs in the market going forward.

Matsuda (Chief of Control Development Section)
From a software perspective, we have also been working on the development of "interactive programming software" in parallel with the development of new models. This software makes it possible to create machining programs simply by following on-screen instructions, without the need for the complex procedures that have conventionally

been necessary. By incorporating TAKAMAZ's unique knowhow we have achieved more intuitive and user-friendly operation. The point I want to emphasize is that customers who have been using our machines up until now will be able to operate these machines smoothly without anything feeling amiss.

Murasugi
In the European market, TAKAMAZ machines have a good reputation for reliable machining accuracy. We have been making compact, highly accurate machines for a very long time, so I believe we can demonstrate TAKAMAZ's unique strength in the area of maintaining consistent machining accuracy; an area where large multi-tasking machines are recognized to have difficulties. I should add that we'd like to take integration with multi-tasking machines further, capitalizing on the automation technology that is our specialty field. In the European market the standard issue for the manufacturing industry is to "use multi-tasking machine tools

with advanced functions while maximizing efficiency and also minimizing the number of operators by using automation". Even in high-mix low-volume production, automation (labor saving) is an absolute must. I hope that by integrating automation systems such as loaders as standard, we can increase the added value of our products.

The new XYT-65Y model achieves "process integration with upper and lower Y axes" while making the most of TAKAMAZ's strengths of high machining accuracy and operating convenience. By further applying automation, we are sure to create high-value-added labor-saving solutions. TAKAMAZ's new lineup of multi-tasking lathes is definitely something to look forward to.

The XYT-65Y is a machine configuration that enables multi-axis simultaneous machining and process integration by taking the XYT-51 as a base and adding a Y2 axis as a machining axis on the lower slide.



CNC Precision
Multi-Tasking Lathe
XYT-65Y



Machine Specifications

Item	Unit	XYT-65Y	
		Main-spindle	Sub-spindle
Max. turning diameter	mm	$\phi 240$	$\phi 240$
Max. turning length	mm	150 (440: Single-sided processing)	
Max. bar diameter	mm	$\phi 65$	$\phi 51$
Chuck size	inch	8	
Spindle speed	min ⁻¹	Max. 4,000	
Type		12-station Turret	
Tool shank	mm	$\square 25$	
Boring holder I.D.	mm	$\phi 40$	
Max. stroke	mm	X1: 162.5 Z1: 500 Y1: +40, -35 X2: 170 Z2: 500 Y2: ± 40 A: 550	
Rapid traverse rate	m/min	X: 18 Z: 30 Y: 12 A: 30	
Power tool rotational speed	min ⁻¹	Max. 4,000	
Power tool drill size	mm	$\phi 20$	
Power tool end mill size	mm	$\phi 20$	
Power tool tap size	mm	M16	
Power tool motor	kW	3.7/2.2	
L×W×H	mm	3,003×2,193×2,158	
Machine weight	kg	7,700	

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Seizan Kinzoku Co., Ltd.



Driven by Depth, Defined by Pride.

Venturing ever deeper into technology. Looking to the future with pride in products.

The Kujo district in Nishi-ku in the west side of Osaka, is said to be, along with Higashiosaka, one of the two major hubs of the “metalworking” industry that supports Osaka. For this edition’s WORK & SOUL, we visited Kujo, the “Town of Steel”, which is a transportation hub surrounded by rivers and has grown through the years with streets lined with steel and bolt suppliers, for our interview.



First of all, please tell us your history in coming to be a metalworking business here in Kujo, the “Town of Steel”.

<President Uemura> It started when my father established a metalworking company at Kujo, Nishi-ku, Osaka in 1985. In 1998 that company became Seizan Kinzoku Co., Ltd., and ten years after that in 2008, I took over as the second-generation president of the company. We currently operate with a small, highly skilled team, undertaking metalworking on machine parts related to vehicles such as cranes and forklifts, as well as medical equipment and the food industry.

Could you tell us about your company’s strengths in the highly competitive environment of Kujo, Nishi-ku?

<Managing Director Momota> Our strength is that the President and everyone else on-site is a “craftsman”. The majority of the

machine components that we machine are ultimately used inside products and therefore not very apparent from the outside. However, that does not mean we will compromise anything, quite the contrary. Under the President’s direction, everyone has “a commitment to beauty,” and we strive for a meticulous, completely scratch-free finish in every project.

<President Uemura> I began training under my father from the age of 15 while attending night school. During that time, I was surprised to see, in the machining workplace, finished products being carelessly tossed into burlap sacks. The highest priority for the industry at that time was “to deliver the goods”. It was a time where speed was the primary concern: “A few scratches or soiling doesn’t matter; it just has to be fast”. Back then, I once tried to

carefully line up the finished products, only to be scolded by my father saying, “There’s no need to do that!”. The sense of unease that I felt when I looked inside those bags haphazardly stuffed with products has made me who I am today. It is precisely because I chose the path of pursuing “beauty” as a result of my experiences at that time that the current Seizan Kinzoku exists.

In our workplace, we often talk about “that extra step”. For example, when machining a part with areas that everyone might touch, we slightly round off its edges to make it feel better in the hand, even if there are no specific instructions to do so on the drawing. All of our craftsmen consider this kind of “spontaneous ingenuity”, which seems obvious but is actually difficult to achieve, to be important.

<Managing Director Momota> I think this is a strength that comes from being a small local factory and is not possible in a large company. We consider “thoughtful attention” that goes beyond the instructions on the drawings to be the minimum professional courtesy. The smoothness and sense of assurance that you feel the instant you handle the part. We are proud of the fact that this thorough implementation of “the obvious” has led to positive appraisals from our regular customers.

<President Uemura> Kujo, Nishi-ku, Osaka is a “manufacturing battlefield” where a difference of one yen can make all the difference. Ironworks with integrated living quarters line the streets, and information like which company has installed new equipment spreads instantly. You can’t survive on low prices and speed alone. In the midst of this fierce competition, we at Seizan Kinzoku have consistently focused on the “value beyond price”, which is attention to detail. Precisely because we operate in such a fiercely competitive environment, we place great importance on quality that makes our customers say, “You are the only one we can rely on.”



From this spring, TAKAMAZ’s new multi-tasking lathe “XTL-8MYS” has also started operation. You’ve emphasized the word “challenge” in connection with introducing multi-tasking lathes; what do you mean by that?

<President Uemura> The area that centers on Kujo, Nishi-ku is a location where masters from each field—lathes, milling machines, drilling machines—congregate. We wanted to discover new possibilities for manufacturing and take on new challenges by going beyond the “leave it to specialists” mindset that is deeply entrenched in this area. By integrating multiple processes on a single unit of the latest multi-tasking lathe, products that would previously have passed through several factories can now be completed in this factory alone. This initiative also challenges the systems that have been established in this region over time, and it was decided after extensive discussions and careful deliberation by everyone in the company. We also have a strong desire to create new standards for Kujo, Nishi-ku.

<Managing Director Momota> Kujo, Nishi-ku is a town with a long tradition of craftsmanship, but is now facing major issues such as an aging population and a shortage of successors. As the district is starting to lose its vitality, I very much hope that we can become the “source of energy” for this town and help to revitalize it. Sharing our passion for craftsmanship such as through daily posts on Instagram, and disseminating the effects throughout the entire community is one method. Another is to introduce the latest multi-tasking lathes to provide an alternative as the “culture of division of labor” is being phased out. This challenge is not only about our company’s profits, but also our resolve to maintain our supply chain and protect the customers who have supported this town over many years. We are building a new model for the manufacturing industry from Kujo, Nishi-ku.

We are taking those ideas seriously at TAKAMAZ too. To finish up, could you tell us what led you to introduce TAKAMAZ machines?

<Managing Director Momota> From introduction up to after sales service, we felt really reassured about the way YAMATO KIKO SYOKAI CO., LTD and TAKAMAZ dealt with us. For manufacturing sites, a machine stopping is directly linked to loss of profit. For this very reason, you have helped us countless times with a quick response when trouble has occurred. In the industry we have seen cases where “keeping people waiting” has become the norm, but there was absolutely none of that in our dealings with TAKAMAZ. It is precisely because of this support system that we are able to continue pursuing innovative machining techniques. We are growing day by day. It is about ourselves today rather than what we were yesterday.

<President Uemura> I believe that the value of a machine can only be appreciated after gaining a thorough understanding of its unique sounds, quirks, and limits. That is why we place such a high priority on after-sales support to deal with any problems that may arise while pushing those limits. It is the existence of a comprehensive support system that allows us to push ourselves to the limit with confidence. Our company handles a lot of machining of small workpieces, and speed was required. In this context, TAKAMAZ matched our needs as a manufacturer of both single-purpose lathes and collet chucks and that is what prompted our relationship, which is still ongoing.

In this interview, Managing Director Momota’s phrase “we are growing day by day” was particularly memorable. It gave an impression of the pride and dignity that he has held over the years as a craftsman. As a company that is also engaged in manufacturing, we strongly empathize and I would like to take this opportunity to express my gratitude once again.



Left:Kazuo Uemura,
President

Right:Motohiko Momota,
Senior Managing Director





[New Series] A series of informal interviews that explores the “thoughts and passions” of researchers and engineers who are shaping the future

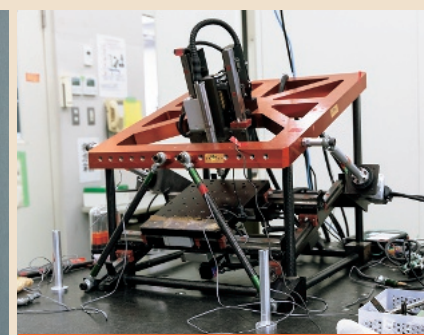
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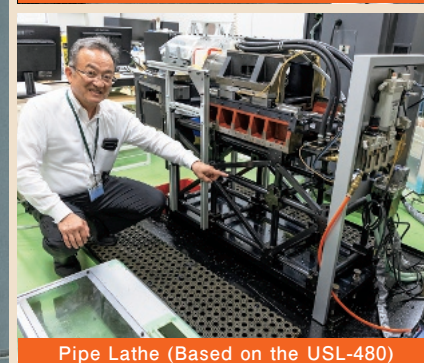
■ Faculty of Engineering, Kanazawa Institute of Technology
Department of Advanced Mechanical Systems Engineering
■ Fellow of the Japan Society of Mechanical Engineers
Professor Yoshitaka Morimoto

profile

Researcher specializing in machine tool control, microfabrication technology, and digital twins. A key feature of Professor Morimoto's research is that it is based on the premise that “machines inevitably vibrate, and deform due to heat,” and it achieves ultra-precision machining by making use of advanced control engineering and digital technology to address this.



Desktop machine tool



Pipe Lathe (Based on the USL-480)

For the first interview in this series, we spoke to Professor Yoshitaka Morimoto of the Faculty of Engineering at the Kanazawa Institute of Technology, who has a very close relationship with TAKAMAZ.

Roots as a Researcher

I work with a variety of companies, but my relationship with TAKAMAZ is a special one. When I was young, I used to work at the Ishikawa Prefectural Industrial Research Institute, and my relationship with TAKAMAZ started at that time. After leaving that position, I spent three years at Toyama National College of Technology and nine years on assignment at Utsunomiya University in Tochigi Prefecture. Despite the fact that Tochigi Prefecture is quite far away, TAKAMAZ kindly supported my research by transporting the machines I needed for research to Utsunomiya and lending them to me. Subsequently I was approached by the Kanazawa Institute of Technology, and I am deeply grateful to TAKAMAZ, who continued to support me through thick and thin until I came back to Ishikawa Prefecture.

I was initially interested in the fields of machine tool control and vibration, and conducting research in those fields. The period when I started research through the relationship with TAKAMAZ was truly a golden age of research. During that time TAKAMAZ along with many other manufacturers was seeking to develop “ultra-precision

lathes (mirror-finishing machines)” capable of machining CD master discs. I remember how everyone took on this challenge, inspired by a fascination with a technology that could boost precision by two decimal places compared to conventional lathes, and how we also set our sights on developing that technology.

It was also a period of technological transformation, marked by the rapid spread of electronic devices such as microcomputers and personal computers, and rapid progress in the “computerization (NC conversion)” of lathes and other machine tools. At worksites where people were racking their brains and devising various ingenious ways to integrate machinery and electronic controls, I was also working by trial and error. The starting point for me is having experienced up-close the history of the dramatic development of machine tools up to the transition to the smart factories of today, utilizing modern AI and cutting-edge software.

Ideas and Concepts Lead to TAKAMAZ Machine Tools

The project I'm currently working on in the laboratory, “Development of Machine Tools Using Tubular Frames”, is packed with ideas I've been nurturing for many years. Taking my return to Kanazawa Institute of Technology as an opportunity, I managed to work with TAKAMAZ to turn my original concept of “using tubular frame structures to

suppress machine vibration and thermal expansion” into a concrete plan. I feel that the technical philosophy and perspectives we explored together have definitely been reflected in the foundation of the current TAKAMAZ lathes.

And the results of my joint research with TAKAMAZ have been highly acclaimed by both the academic and industrial communities, as evidenced by our receipt of the “Japan Society of Mechanical Engineers Award (Paper)” and having two other awards simultaneously conferred on us by the Japan Society for Precision Engineering: the JSPE Takagi Award and the JSPE Technology Award.

Robotic Machining as the Culmination of this Research

I am now involved with “robotic machining” as a new challenge. I am applying the expertise I have built up over the years to tackle the issue of how to machine large workpieces that cannot be accommodated on machine tools. Robotic machining incorporates all of the technologies related to my main fields of research, “digital twins” and “adaptive control (adaptability)”, and I feel it represents the culmination of my research.

ORANGE NEWS will continue to share the perspectives of various researchers and engineers.

TOPIC1

Exhibited at MEX Kanazawa 2026

We exhibited again this year at MEX Kanazawa 2026, which was staged over the three days from May 14 to 16. This exhibition showcased a variety of models designed to help achieve a workplace that goes beyond mere automation under the theme [Launching TAKAMAZ's “All-round Strategy”!]

We also received a great deal of interest in our new product, the “AT-1” 1 spindle, 1 turret lathe. The students' booth was packed every day, and staged company presentations as well as quiz events. We truly appreciate everyone who stopped by at the TAKAMAZ booth.

MACHINERY & ELECTRONICS EXHIBITION IN KANAZAWA
MEX
金沢2026



MEX Digest



TOPIC2

Exhibited at the New Environmental Exposition 2026

Following on MEX Kanazawa 2026, we also exhibited the “recyclable waste automatic AI sorting machine: AI-B-sort” at the New Environmental Exposition 2026, which was staged in Tokyo from May 20 to 22. At this event, we showcased a configuration in which the number of bottle sorting loading arms was increased from 2 to 4 to improve sorting capacity, and we demonstrated the enhanced AI-B-sort system, which has evolved since our last event. We will incorporate the valuable feedback we received from everyone into our future product development.



A Colleague's Favorite Book

The Naoki Hanzawa Series by Jun Ikeido

Domestic Sales Dept. Tohoku Office:
Hitoshi Sugaya

Years of Service: 35
Hobby: Golf

I came late to the hobby of golf, at the age of 55. I enjoy it to keep healthy, without worrying about the score.



If you get hit, hit back. The whole series is climactic.

I have always liked reading books. I read all kinds of genres, including anime, science fiction and suspense. I've read all of Jun Ikeido's works, but my favorite is the Naoki Hanzawa series. This is a thrilling novel in which bank employee Naoki Hanzawa takes on the corruption and injustice in a

huge organization and ultimately takes down his arrogant boss. I'm sure you're all familiar with the well-known line, “If you get hit, hit back, and twice as hard”. I have also been listening to books more often on Audible recently. I think people who are not very into reading will find it enjoyable too.





Learning from Regional Branding TAKAMAZ LEARCATION



The charm of the "Squid Town," expressed through a giant squid monument

The regional branding initiative centered on "Squid King" in Noto Town, Ishikawa Prefecture, has been acclaimed as a rare success story where controversial backlash was transformed into energy to achieve an economic impact. Born in the "Squid Town," the Squid King is not a monument just to be looked at: it was designed to allow visitors to take "unique photos of themselves being 'eaten' by a squid," and has gone viral on social media. The appeal of Noto Town isn't limited to its interesting monument. There is also the neighboring Ogi Port, one of Japan's three major squid fishing ports, and the tranquil and beautiful Tsukumo Ria Coast. Another addition to the area's appeal is the Jomon Mawaki Site, a miraculous archaeological site that clearly shows how the bounty of the sea supported people's lives for 4,000 years.

Recommended Spots to Visit Along the Way



Squid Station Mall

This popular facility offers specialties from Oku-Noto, including squid from Ogi Fishing Port, which boasts one of the highest squid landings in the whole of Japan. People can also enjoy sightseeing cruises and other activities to experience Tsukumo Bay to the full.



Rocky Shore Observation Path (inside the Noto Marine Center)

Located next to Tsukumo Bay, this is a hands-on learning facility designed to help visitors "get close to and learn about" the ocean. Please enjoy the scenery and nature along the rocky shore observation trail, where you can walk across the sea by hopping from rock to rock.



Mawaki Site Park

This is a historical experience park centered around the "Mawaki Site," one of the largest sites of a Jomon-period settlement in the Hokuriku region. In addition to the Jomon Museum at the Mawaki Site, you can enjoy a stunning view overlooking Mawaki Port, and a mysterious circular arrangement of wooden posts.



Ishiru + Yoshiru (Squid Station Mall)

A traditional fish sauce born out of the climate in the Noto region. This is a versatile seasoning with a unique and additive flavor.



Ika Junmai (Chikuha / Kazuma Sake Brewery)

A sake developed to complement the flavor of squid. It is characterized by a sweet, rich bouquet and a full-bodied flavor.



Noto Squid Crackers (Wahei Shoten)

These handmade rice crackers rich in squid from Ogi have a dried squid aroma. To bring out the flavor of the squid, crackers are grilled twice.



Plump, Juicy Noto Blueberry Sauce (Hira Miyuki Farm)

Hand-picked from the bushes when fully ripe. This blueberry sauce is packed with lots of plump berries.

TAKAMAZ

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