

ORANGE

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Interview on Manufacturing

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Sylveon Brings a

New Boost to Noto's Recovery



[Cover photo] Location:

Sylveon with LOVE

On August 29, 2025, a new monument was unveiled in front of Mitsukejima, a prominent rock rising from the sea and a symbol of the Noto Peninsula. Sylveon, an Intertwining Pokémon, forms a large heart with its ribbon-like antennae.

[Model] Seina Fukui

えんむすびーち in SUZU

POKÉMON with YOU
- ポケモンはいつもそばに -

TAKAMAZ

TAKAMATSU MACHINERY
PR Magazine Spring 2026

XTL-8MYS Redefines Process Integration with its Double-End Machining Specification



Assistant Manager
Technical sales & cutting
Satoru Niwa

Manager
Technical sales & cutting
Hironobu Yamagishi

The XTL-8MYS is a precision multi-tasking lathe that offers a double-end machining specification. Since its debut at Mechatronics Technology JAPAN (MECT) 2025, the machine has generated far more interest than expected. In addition to growing expectations for process integration, this strong interest also appears to reflect a broader shift in capital investment strategies—away from reliance on dedicated machines and toward greater flexibility in building processes around standard machines. The XTL-8MYS is also scheduled to be exhibited at the Machinery & Electronics Exhibition in Kanazawa (MEX Kanazawa) 2026, opening on May 14, 2026. Here, we take a closer look at the story behind its development.

To start off, could you tell us what led to the development of the XTL-8MYS (double-end machining specification)?

Yamagishi(Manager Technical sales & cutting)
The newly developed XTL-8MYS is an 8-inch precision multi-tasking lathe equipped with the double-end machining specification. It began from a

machining inquiry received at our Nagoya branch. The customer was already using our lathes for turning operations and approached us with a very specific request: to machine center holes on both ends of a workpiece in addition to turning. Giving due priority to this request, our sales team took the lead in reviewing the technical requirements, developed initial concepts, and worked closely with our design engineers to bring the idea to life.

Niwa(Manager Technical sales & cutting)
Customers engaged in shaft machining often use dedicated machines in the first process for operations like machining both ends and center drilling. As a lathe manufacturer, our proposals have traditionally focused on turning operations, so we hadn't fully explored that particular area. However, this customer inquiry made us realize that, with some creative engineering in the machine's design, even a standard model could potentially cover machining areas that had previously been handled exclusively by dedicated machines. By

building on the knowledge accumulated through our past development efforts and trials, we were able to leverage that expertise and bring it to life in the Double-End Machining Specification XTL-8MYS.

Yamagishi
The key advantage is that the machine can be used much like a dedicated unit, while also allowing it to be switched back to a standard configuration when needed. This means production lines can be reconfigured in accordance with the customer's manufacturing conditions. Such flexibility is increasingly in demand—not only in the automotive sector, but across a wide range of industries.

Niwa
In other words, the XTL-8MYS can be set up in much the same way as a conventional lathe. We determined that the XTL-8MYS was optimal for incorporating a double-end machining function and finalized the specifications, such as tools, chucking, and workpiece transfer, to suit this machine. Its ability to function as a dedicated machine while still being a standard machine is a key advantage—something we believe is coming across clearly to customers.

From the standpoint of process integration, what kind of value do you see this machine offering?

Niwa
In the machining of shaft-type components, it has traditionally been necessary to rely on dedicated machines or to re-chuck the workpiece between processes. These steps, like transferring workpieces between processes and setting up for re-chucking, tend to be a burden to operators. With the Double-End Machining Specification XTL-8MYS, both double-end machining and center drilling can be carried out within a single setup. This makes it easier to reduce inter-process transfers and the workload associated with setups. In addition, if conditions permit, even outer diameter machining for gripping in subsequent processes can be incorporated into the same process flow. This enables a more compact production line and allows for easier reconfiguration according to changing production conditions. We see this ability to accommodate greater flexibility in process design as a key advantage.

With all that in mind, could you walk us through the key features of the Double-End Machining Specification XTL-8MYS?



Niwa
For double-end machining, TAKAMAZ offers three models that we typically recommend to customers: XTT-500M, XYT-51, and XTL-8MYS. Among them, the XTL-8MYS stands out as our most specialized solution for double-end machining. The key for achieving double-end machining lies in the hydraulic grippers mounted on the turret. Securely holding the workpiece with hydraulic force is essential. In double-end machining of shafts, precision that maintains the reference point of both centers is particularly critical. The XTL-8MYS is equipped with two hydraulic grippers, which are controlled simultaneously to ensure precision. Another feature is its ability to accommodate relatively larger and longer workpieces compared to the other two models. In addition, the XTL-8MYS is designed to handle not only double-end machining but also outer diameter machining within the same process. Three inserts for outer diameter machining are mounted on the inner side, and their projection can be finely adjusted manually. By combining this with contouring machining*, dimensional adjustments can also be made more easily on the program side. A key feature of the XTL-8MYS is that it expands the range of options available in process design compared to conventional between-centers lathes.

* A method in which the cutter rotation and the movement of the workpiece are program-controlled to finish the outer diameter along a helical path.

Yamagishi
This specification is not about being able to do everything. Rather, its strength lies in the flexibility it offers, allowing us to work with customers to co-design the optimal solution. Together, we review existing processes and objectives, and then determine which steps to replace and how far to consolidate them into a single machine. We like to start with discussions on process design and then work toward

proposals that reduce setup burden and the number of processes. Building on this double-end machining specification, another key strength is our ability to offer integrated solutions—from feeding equipment to discharge—complete with automation. Since its debut at MECT 2025, we've seen more interest than we expected. We've received inquiries not only from

the automotive sector, but also from customers involved in shaft machining in fields like construction and agricultural machinery.

For your next capital investment, it may well be worth considering a forward-looking standard machine instead of dedicated machines. We will also be exhibiting this 8-inch Precision Multi-Tasking Lathe XTL-8MYS with Double-End Machining Specification at MEX Kanazawa 2026. We very much look forward to seeing you there.

[Yamagishi]
Hobby: Marathon running
Message: If you have any challenges with machining, please don't hesitate to reach out. We'll respond quickly and attentively to your specific needs. We look forward to seeing you at our exhibition booth.



[Niwa]
Hobby: Solo camping
Message: If you have any questions or concerns about machining, please feel free to contact us. We'll work with you to find the best approach from a shop-floor perspective.



CNC Precision
Multi-Tasking Lathe
XTL-8MYS

Double-end machining on the XTL-8MYS is done by holding the workpiece with hydraulic grippers mounted on the turret, enabling continuous work from machining both end-faces, center-hole drilling, through to outer-diameter machining. It reduces setup work and supports shorter processes as well as process design based on a consistent reference.

■ 機械仕様

Item	Unit	XTL-8MYS	
		Main-spindle	Sub-spindle
Max. turning diameter	mm	φ220	
Max. turning length	mm	404	
Max. bar diameter	mm	Solid(φ42, φ51)	Solid(φ35)
Chuck size	inch	8	6
Spindle speed	min ⁻¹	4,000	
Type		12-station Turret	
Tool shank	mm	□25	
Boring holder I.D.	mm	φ40	
Max. stroke	mm	X:175 Z:550 Y:+35, -40 A:400	
Rapid traverse rate	m/min	X:18 Z:24 Y:10 A:30	
Tool storage capacity	pcs.	12	
Rotation speed	min ⁻¹	4,000	
Power tools Drill	mm	φ20	
Power tools Endmill	mm	φ20	
Power tools Tap	mm	M16	
Spindle motor	kW	AC15/11	AC7.5/5.5
L×W×H	mm	Manual machine2,764(1,840*)×1,965×1,880 Machine with loader2,764(1,840*)×1,965×2,400	
Machine weight	kg	5,500	

() :Option
※1 Bed width

MinebeaMitsumi Inc.

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Fujisawa Plant	1-1-1 Katase, Fujisawa, Kanagawa 251-8531 Yoshihisa Kainuma,
Representative Capital	Representative Director, Chairman CEO 68,258 million yen (As of March 31, 2026)
Consolidated Number of Employees	81,383 (As of March 31, 2026)
Number of Consolidated Subsidiaries and Affiliates	146 (As of March 31, 2026)
Date of Establishment	July 16, 1951
Outline of Business	Machinery Components Business, Electronic Devices and Components Business Automotive, Industrial Machinery and Home Security Unit Business



HP



(left) Team Lead of Corporate Communications and Investor Relations Office Tsunao Masayasu
 (Second from left) Deputy General Manager of Fujisawa Manufacturing Div. Naoyuki Kosuge
 (Second from right) Deputy section Manager of Fujisawa Manufacturing Div. Ryo Maruyama
 (right) Section Manager of Corporate Communications and Investor Relations Office Kuniyoshi Sato

Ultra-precision to the world

An integrated precision components manufacturer bringing together a broad range of technologies to create new value

Driven by an uncompromising commitment to ultra-precision, MinebeaMitsumi continues to generate new value and deliver cutting-edge solutions. Our PR staff visited the manufacturing site of this company, which holds the world's top share in miniature bearings.

Your company holds the leading share in bearings. Could you tell us how you reached this position and outline your current business activities?

<Mr. Sato> MinebeaMitsumi Inc. was founded in 1951 as Nippon Miniature Bearing Co., Ltd. In the early years, we faced considerable challenges in ensuring bearing precision. By introducing what was then cutting-edge machinery from the United States, however, we were able to acquire the technologies needed to improve both precision and quality. In the 1960s, we relocated to Karuizawa, now

our main plant, where we established our technical capabilities in mass production and ultra-precision machining. Building on this foundation, we entered the U.S. aerospace market and steadily expanded our share there. In the following years, we established manufacturing bases overseas—first in the United States and Singapore in the 1970s, and later in Thailand in the 1980s. By developing our operations in Thailand into the largest production hub, we created a system capable of stably delivering high-quality products in large volumes with strong cost competitiveness, which ultimately led us to hold the leading share in bearings. We now focus our business on eight core areas: miniature and small-diameter bearings, analog semiconductors, motors, access products, sensors, connectors and switches, power supplies, and wireless and communications technologies and

software. As an integrated precision components manufacturer, we provide a wide range of machined products and electronic components. The term “integrated” was adopted with the intended meaning “to be combined” rather than “to sum up.” Create new value through synergy by combining all the resource across the company's group.

How are your products used in everyday life?

<Mr. Sato> Our products are used in a wide range of applications across society. They can be found in home appliances like air conditioners and refrigerators, as well as in computers, smartphones, automobiles, and aircraft. For example, bearings are used extensively in rotating objects in everyday life. Our products are also used in the motors of air conditioners and refrigerators, and inside hard disk

drives that manage data. We also manufacture extremely small bearings, including one with an outer diameter of 1.5 mm and an inner diameter of 0.5 mm, which has been certified as the world's smallest bearing. What we consider our strength is not only our ultra-precision machining technology itself, but also the ability to supply such products in large volumes.

Looking ahead, in what areas do you envision your business growing?

<Mr. Sato> We see strong growth potential in five key areas: AI servers, commercial drones, humanoid robots, fully autonomous driving, and new mobility. We believe that our wide range of products will be increasingly needed in these growing fields.

In this ongoing series, we explore the passions and convictions of those on the front lines of production. Please share the philosophies you hold dear in manufacturing and the approaches you value.

<Mr. Kosuge> Our management philosophy is to produce better products faster and smarter, in greater quantities, and at lower cost. We focus on achieving high quality and short takt times, while also ensuring stable mass production and keeping costs down to make products as efficiently as possible. In making our manufacturing smarter, TAKAMAZ has

been a strong partner, particularly in automation. TAKAMAZ staff has consistently proposed a wide range of solutions even for challenging issues, and we are very grateful that this has enabled us to align our production with this philosophy.

<Mr. Maruyama> One episode that symbolizes our commitment to manufacturing is that bolt products manufactured here at our Fujisawa Plant were approved by Boeing, a U.S. company known for its extremely stringent quality requirements, enabling us to begin doing business with them.

<Mr. Kosuge> Our Fujisawa Plant is responsible for manufacturing fasteners, such as screws and bolts, and the partnership Mr. Maruyama just mentioned would not have been possible without that approval. It took time, but we became the first approved plant in Asia last year. We believe TAKAMAZ products played a significant role in reaching this milestone.

Before we finish, could you tell us what led you to adopt TAKAMAZ machines for your operations?

<Mr. Kosuge> We first introduced six XD-10i units at our Fujisawa Plant. From a management perspective, our priority at the time was less on “faster” and more on “lower cost,” and we concluded that

TAKAMAZ machines were the best fit in that regard. Another reason was that TAKAMAZ designs and manufactures its own collet chucks, which allowed us to select ones that matched our specific needs.

In particular, the overhang collet chuck, which reaches over the bolt head and grips the shaft, was an excellent fit for our applications.

<Mr. Maruyama> Also, the compact loader has been an immense help. It's so compact, and TAKAMAZ staff worked closely with us to customize it in a variety of ways to meet our needs. I'd also add that when selecting equipment, we really appreciate how quick your responses are and how spot-on your support is in addressing our requests.

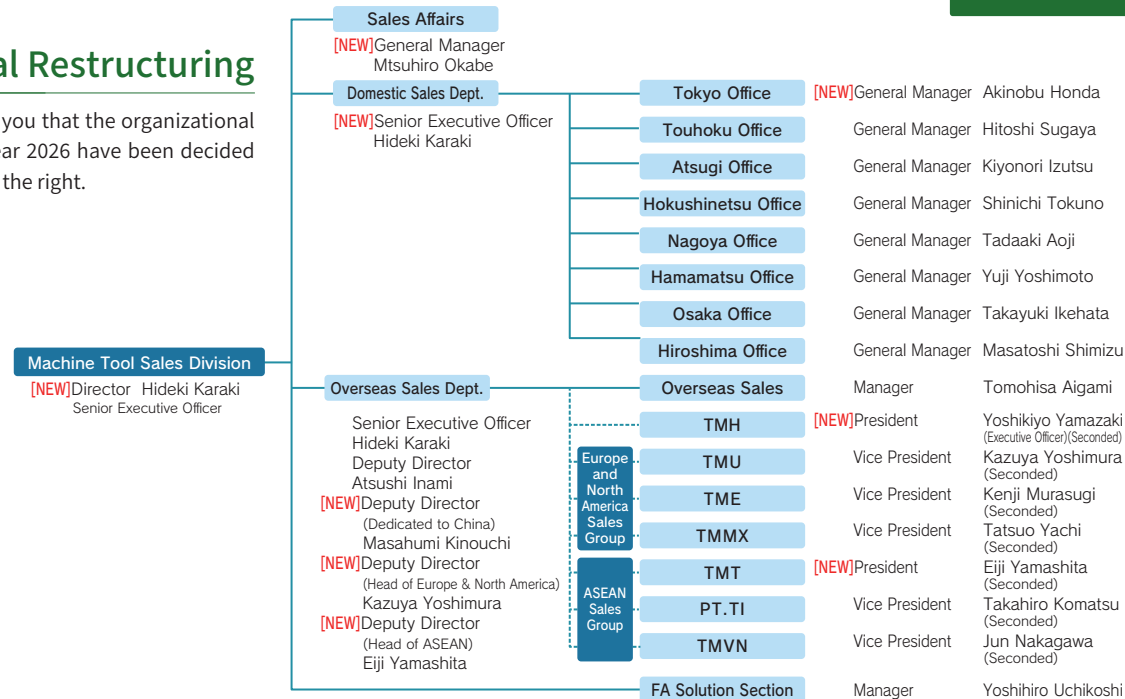
Visiting the Fujisawa Plant, we were deeply impressed to see that, alongside its long history and extensive operations, the facility was exceptionally clean and well organized inside and out. As a fellow manufacturer, we found many aspects we can learn from. We would like to express our sincere appreciation once again for this valuable interview.



TOPIC1

Organizational Restructuring

We would like to inform you that the organizational changes for the fiscal year 2026 have been decided as shown in the chart on the right.



TOPIC2

Company Entrance Ceremony of 2026

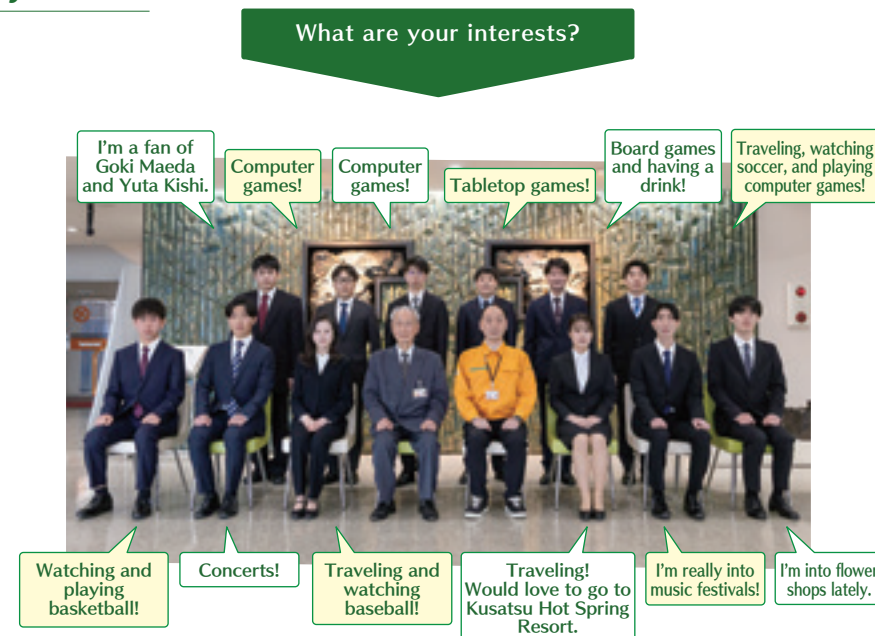
On April 1, an entrance ceremony was held at the head office to welcome 12 new colleagues to the company. The event took place in an atmosphere that blended a sense of formality with warmth, as the Chairman and the President offered words of encouragement to the new employees.

“Today’s world is marked by rapid change and constant new developments. Just as the global shift toward decarbonization is influencing capital investment in the automotive industry, changes in the international landscape will also have a significant impact on your lives. Starting today, as members of our team, let us navigate this environment together.” (excerpt from the Chairman’s speech)

“You may be feeling both anxious and excited at this moment. Your daily efforts will lead to your personal growth, and that growth, in turn, will contribute to the growth of your senior colleagues and ultimately drive the growth of the company.

Let us all grow together.” (excerpt from the President’s speech)

We look forward to seeing how our new colleagues will grow and contribute in the years to come.



Learning from Regional Branding TAKAMAZ LEARCATION

Sylveon Brings a New Boost to Noto’s Recovery

Sparked by *Pokémon GO*, the positive relationship between regional communities and Pokémon has continued to evolve. It has since developed into a program featuring official regional ambassador Pokémon, such as Geodude for Iwate, Sandshrew for Tottori, and Vulpix for Hokkaido, significantly boosting tourism and regional appeal. Today, Pokémon has become a central element in regional branding efforts across Japan. In Suzu City, located at the tip of the Noto Peninsula, a new symbol has emerged as the peninsula strives to recover from a major earthquake: a monument of the beloved Sylveon from Pokémon, standing on the shore with Mitsukejima—a towering rock rising from the sea and one of Noto’s most iconic landmarks—just offshore behind it. The partnership between Pokémon and the Noto Peninsula extends beyond Suzu City, with further initiatives planned across the region. We will continue to closely follow the impact Pokémon will have on Noto’s recovery.

Recommended Spots to Visit Along the Way



Rokkozaki Lighthouse

Located at the northernmost tip of the Noto Peninsula, this lighthouse at Cape Rokkozaki retains the charm of the Meiji era (1868–1912). It is also known as a scenic spot where visitors can enjoy both the sunrise and sunset over the ocean from the same location.



Sanctuary Cape

Within the expansive grounds of the secluded inn, Lamp no Yado, stand the Sky Bird aerial observatory and the Blue Cave. Together, they form the Sanctuary Cape, a new landmark of the Noto Peninsula.

Souvenir Picks Discovered on the Road



Coffee Beans from Nizami Coffee Shop

A popular coffee shop that served as the model for the film *Saihate*. Its house-roasted beans attract orders from far and wide.

Rusks & Cookies from Furukawa Shoten

The delightfully unique rusks and cookies from this local bakery in Noto feature refined flavors tailored for adults, made to highlight the best of locally sourced ingredients.

Saihate Ginger by Nihon Hakko Kasei

Saihate Ginger is a *shochu*, a traditional Japanese distilled spirit, crafted using techniques rooted in the traditions of Noto master brewers. Its crisp ginger notes are complemented by aromatic *shiso* and a refreshing hint of lemon, leaving a pleasantly lingering finish.

Authentic Vietnamese Sweets from Muine

These charming Vietnamese sweets highlight the natural flavors of their ingredients. Made in Noto by the specialty shop Muine, they are available at Roadside Station Suzunari.

A Colleague’s Favorite Book

Mishimaya Hencho Hyakumonogatari by Miyuki Miyabe

業務部 営業企画課 課長
白澤 正宏

Years of Service: 39
Primary Responsibilities: Public relations and communications
Hobbies: Cycling, swimming, photography

I like to think of “around sixty,” as we often say, as “rebellious against turning sixty,” and I make it my motto to enjoy each day to the fullest. Looking forward to seeing you all at trade shows!



A historical horror series where human drama and the supernatural intersect

When I was asked to kick things off for this new column, I wondered if I had a book worth sharing. As I looked over my bookshelf, my eye fell on *Mishimaya Hencho Hyakumonogatari*, a series my wife recommended to me a few years ago. It’s so popular that it has been adapted into TV shows and comic books, making it a must-read for anyone who enjoys eerie tales. The stories unfold in the Black and White Room, a reception room tucked inside Mishimaya, a popular bag shop in Edo (present-day Tokyo), where *hyakumonogatari*—a traditional gathering in which chilling stories are told one after another—takes place. While the classic custom

involves a group sharing one hundred chilling tales and extinguishing a candle after each one, Mishimaya’s version is one-on-one. The rule is simple: “Tell and leave it behind; listen and let it pass.” What is spoken there must never be retold. In these tales, human desires and obsessions take on new forms, emerging as strange phenomena and restless spirits that stir trouble. Ten volumes have been published over roughly a decade, and the series is still ongoing. When reading these chilling tales on a summer night this year, I recommend turning your air conditioner temperature setting up by one degree.



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Scan this QR Code for more details.
<https://www.takamaz.co.jp>



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