



X-in-1 Debut! ~ e-Powertrain Plant Part 1 ~

This is the third installment of our series exploring the e-Powertrain 'X-in-1,' which began production in fiscal year 2025. This time, we focus on the e-Powertrain plant in Fuji Area 4.

We interviewed team members who have tried various new technologies and manufacturing methods, different from the AT/CVT era. In this first part, we feature those involved in heat treatment, quality assurance, and maintenance.

Heat Treatment

Manufacturing Section, e-Powertrain Factory – Watanabe san

I am in charge of heat treatment.

This was my first time handling simultaneous operations, so I felt confused and anxious. However, with advice from the technical department, being involved in the launch was a valuable experience.

A future challenge is 'heat treatment distortion,' which can cause defects depending on the degree of distortion when sending parts for processing. I hope to

solve this by collaborating and sharing ideas with both the heat treatment and finishing teams.



#### Quality Assurance (Fuji Area 4)

Quality Assurance Department, Section 4 – Sugano san

My job is to ensure the quality of processing, heat treatment, and assembly.

Aiming for a 'brand-new factory,' it was challenging to have manufacturing staff cooperate in areas originally handled by quality assurance. Based on my experience, I requested quality assurance to take on an educational role. For example, regular inspections of heat treatment, previously done by quality assurance, were transferred to the heat treatment team, with quality assurance only performing the final check. This was possible thanks to the high awareness of the manufacturing staff, not just the efforts of quality assurance.

My goal is to successfully implement this process and expand it company-wide.



### Quality Assurance (Cast Parts)

Quality Assurance Department, Section 2 – Kubota san

I am responsible for quality assurance of cast parts, specifically dimensional measurement, internal quality investigation, and handling defects.

This was my first time dealing with electric components, so I was both curious and excited. Although I encountered things I had never experienced before, I have decades of experience in casting, so I tackled the challenges through trial and error.



## Maintenance

Maintenance Technology Section, Engineering Department – Takeda san

I am responsible for emergency response and planned maintenance of the X-in-1 assembly and processing lines.

Since this was my first time participating in simultaneous activities, it was completely different from my previous work, and I started with uncertainty. Many members were unfamiliar with the plants in Area 4, so we overcame challenges by working together.



I believe electrification projects will begin in each area, so I hope to use the experience gained this time to contribute to new lines and equipment in other areas.

