



~Advanced Test System and Test Bench Engineering Professional~

Tokyo Plant Co., Ltd.



Introduction Bespoke test system

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» Complete bespoke development from specification to final build

We provide fully customized test equipment to meet specialized testing needs that cannot be addressed with standard products.

By thoroughly defining requirements—such as testing objectives, target components, measurement items, accuracy, and operating conditions—we design optimal systems covering mechanical structure, control, measurement, and safety.

Leveraging both in-house and partner technologies, we handle all processes from manufacturing and assembly to wiring and control software implementation.

After completion, functional and performance checks are conducted to ensure the system meets customer expectations before delivery.

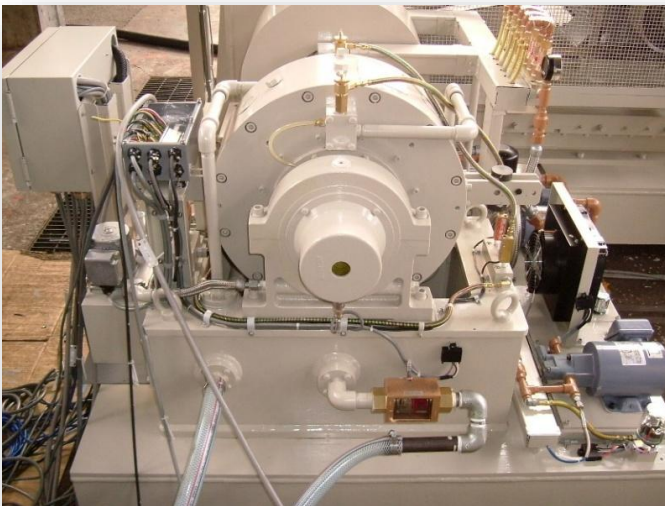
Through this end-to-end approach, we reliably deliver customer-specific test equipment that enhances efficiency and improves the reliability of development and evaluation workflows.



» Chain performance test bench



» Belt performance test bench



» Scope of the project

- ✓Main unit of test systems
- ✓Control and measurement system
- ✓Automation system
- ✓Cabinet
- ✓Calibration tools
- ✓Commissioning

» Feature

- ✓Measure the chain's transmitted torque and rotational speed.
- ✓Measurement items (such as wear rate and temperature) are determined according to the customer's requirements.

» Scope of the project

- ✓Main unit of test systems
- ✓Control and measurement system
- ✓Automation system
- ✓Cabinet
- ✓Calibration tools
- ✓Commissioning

» Feature

- ✓Measure the belt's transmitted torque and rotational speed.
- ✓Measurement items (such as wear rate and temperature) are determined according to the customer's requirements.

》 Custom-specification controller using a PLC



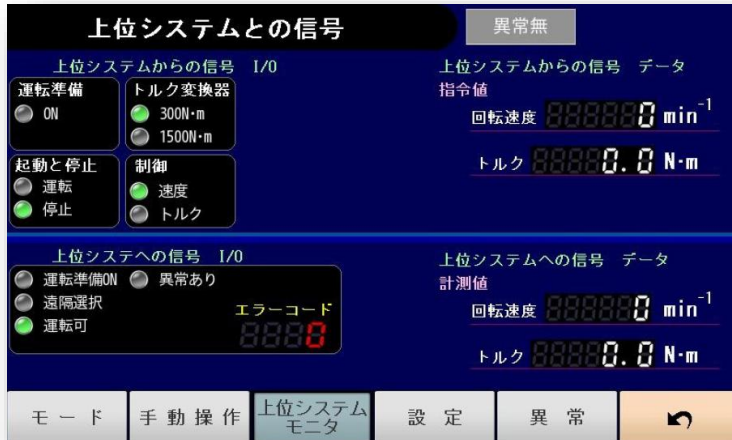
We design and manufactures custom-specification controllers tailored to the specific requirements of test equipment.

Custom controllers built using programmable logic controllers (PLCs) provide optimal control performance that meets on-site operational needs, delivering significant benefits in efficiency, quality improvement, and safety measures.

》 Feature

- ✓Optimized design tailored to customer requirements.
- ✓Flexible expansion and modification capability.
- ✓High reliability and durability.
- ✓Excellent maintainability.

》 Production examples: For motor test



》 Production examples, for T/M test



》 Scope of the project

- ✓ Custom-Specification controller (PLC)
- ✓ Cabinet
- ✓ Motor test bench
- ✓ Commissioning

》 Feature

- ✓ Motor speed or torque control is performed.
- ✓ Abnormal conditions are monitored to protect both the test object and the test equipment.

》 Scope of the project

- ✓ Custom-Specification controller (PLC)
- ✓ Cabinet
- ✓ 2sets of Load unit
- ✓ 2sets of mechanical flywheel
- ✓ Commissioning

》 Feature

- ✓ Speed or torque control is performed for both load devices.
- ✓ Abnormal conditions are monitored to protect the test object and the load devices.

We will participate in your project from the planning phase onward.

We provide seamless support throughout every stage — from creating requirement specifications and design documents, to product design, manufacturing, commissioning, and delivery. Rest assured, we also provide prompt and reliable after-sales service following delivery.

Planning



Please let us know your requirements, specifications, and requests. We can provide a variety of proposals based on your budget and testing needs.

We will also align with the customer's project goals to ensure successful achievement. A non-disclosure agreement will be concluded if necessary.

Contract



After the product manufacturing specifications, service requirements, definitions, and project amount are finalized, the contracting process will begin.

We will work closely with the customer to ensure that the project is executed in accordance with the agreed schedule.

Design, production



We will proceed with product manufacturing under strict delivery and safety control, ensuring compliance with the customer's defined requirements, functionality, and quality standards.

Also, conducting Pre-commissioning at our test bench.

Delivery Civil work



After packing, we deliver the products with the utmost care to ensure that they remain secure and intact during transportation.

We also carry out civil engineering work such as installation, piping, and wiring as requested by the customer.

Commissioning Acceptance



System configuration is carried out, followed by reproducible testing and final adjustments at the customer's test bench.

After service

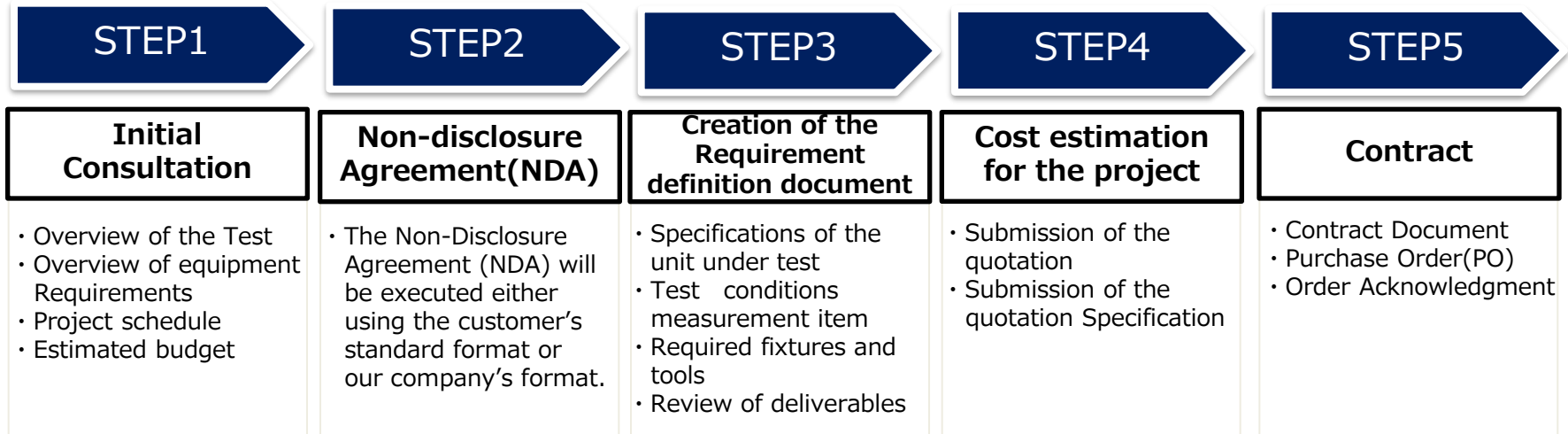


We provide long-term support even after product delivery.

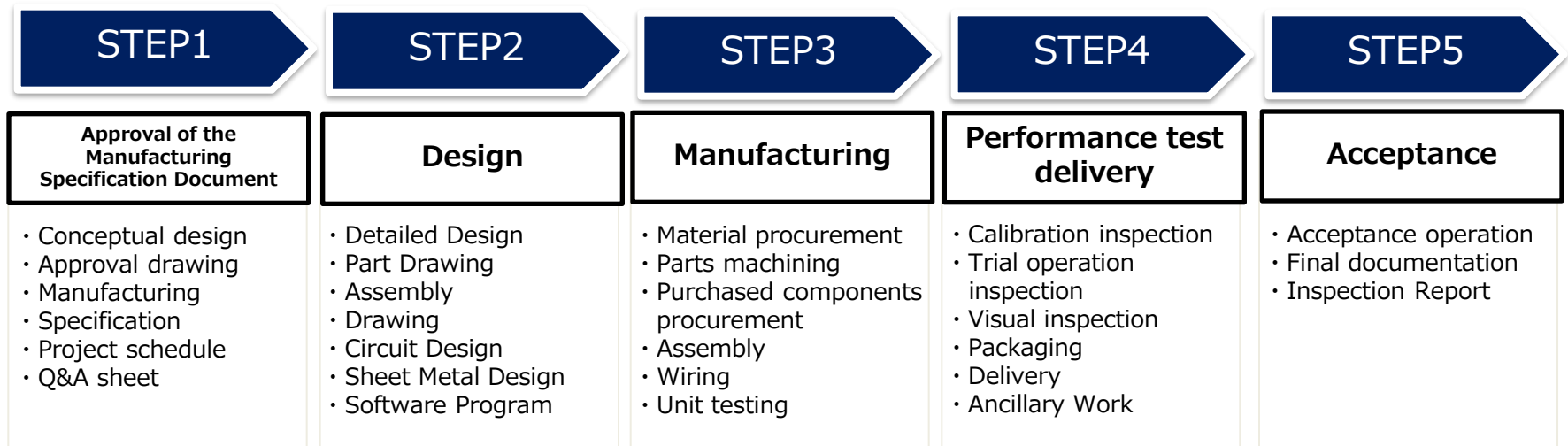
We offer prompt assistance anywhere as needed.

In addition, we propose product upgrades and maintenance planning to ensure continued optimal performance.

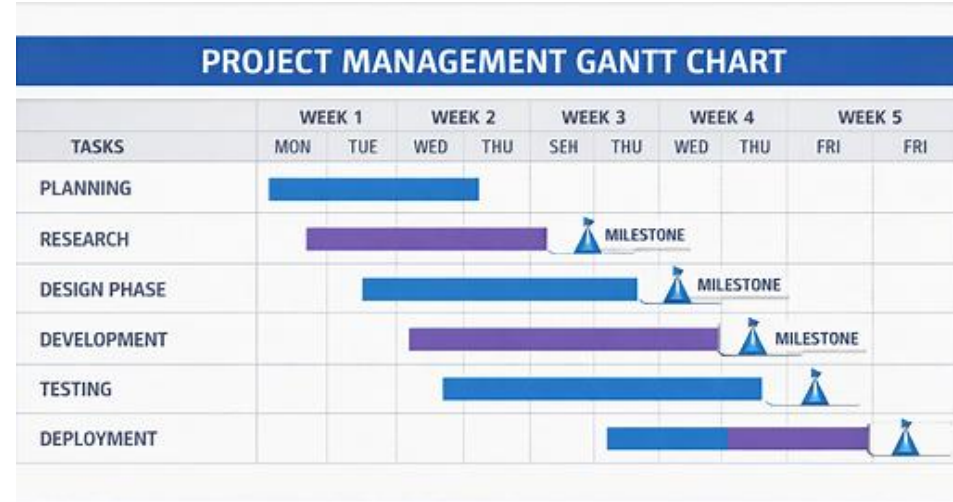
» Process from initial inquiry to contract finalization



» Process from project initiation to completion



» Project execution framework



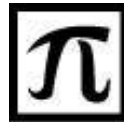
✓Project Leader and Assigned Members

We assign a Project Leader (responsible person) and project members according to the project's scale and type—whether it is a new installation, repair work, or on-site inspection.

✓Project Management

With clearly defined requirements and a firm commitment to achieving QCD (Quality, Cost, Delivery), we approach every project with the same passion as our customers and work sincerely toward its success.





Since 1948



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