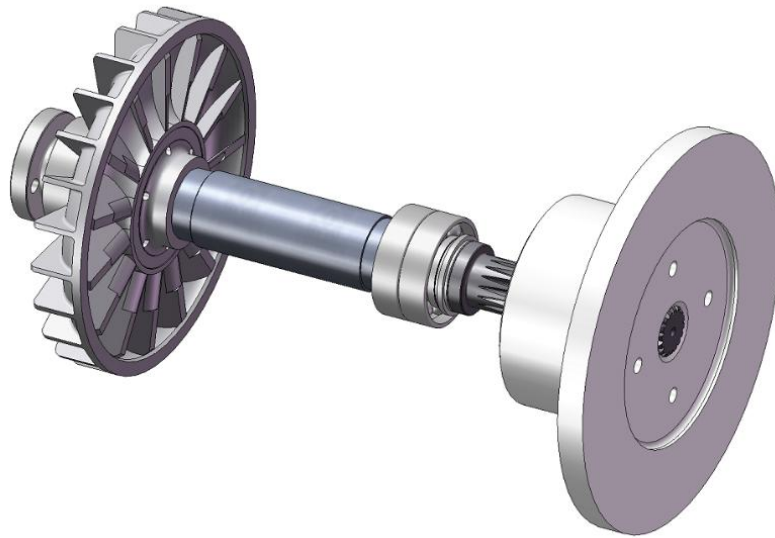




~Advanced Test System and Test Bench Engineering Professional~

Tokyo Plant Co., Ltd.



Mechanical engineering

Update 2026.08.13

Copy right Tokyo plant Co.,Ltd.@2026

» Overview

We supply mechanical components and fixtures required for our customers' test benches. Available options include catalog products, semi-custom items, and fully customized designs. We propose the most suitable solution based on the customer's application and budget.



» CV-Joint Shaft



» Feature

- ✓ Accurate transmission of torque and rotational speed
- ✓ Correction of misalignment
- ✓ Reduced bench-up time
- ✓ Compact size for minimizing test-bench space requirements
- ✓ Vibration reduction
- ✓ Lower moment of inertia through weight reduction

» Specifications

Austria-based tectos offers a wide range of products covering low to high rotational speeds and low to high torque levels.

t70X Series Torque range: 0–40,000Nm
Speed range: 0–10,000rpm

t80X Series Torque range: 0–1,000 Nm
Speed range: 0–30,000rpm

Noise-isolated electrical version available

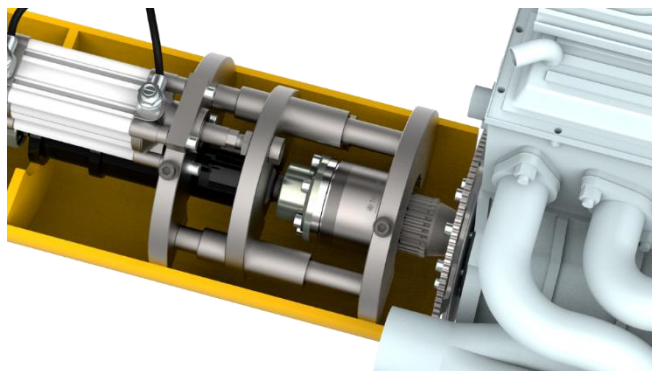


» User case example



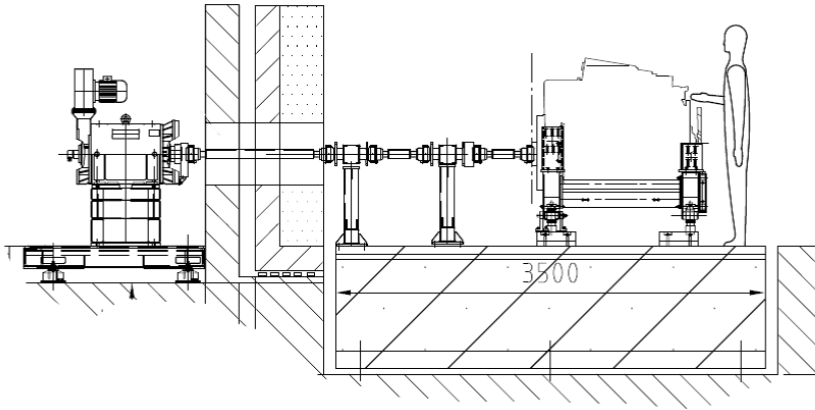
» The t710 series (telescopic shaft)
Features an extendable shaft, allowing installation without modifying the layout of the test bench.

» User case example



» The t-Dock docking system
Automates test-bench connection through a spline mechanism, reducing setup time for each testing stage. Its highly repeatable connection method also prevents human-induced misalignment.

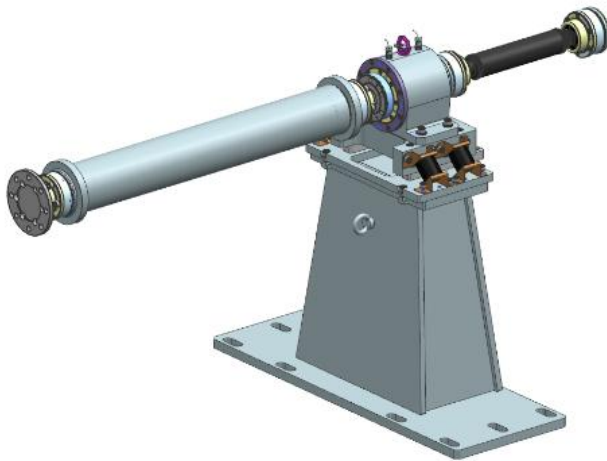
» User case example



» The NV test bench

Enables testing in environments such as anechoic chambers and temperature controlled chambers while maintaining high quietness.

It allows tests to be performed with proper alignment and without introducing imbalance.



» Dumper



» Feature

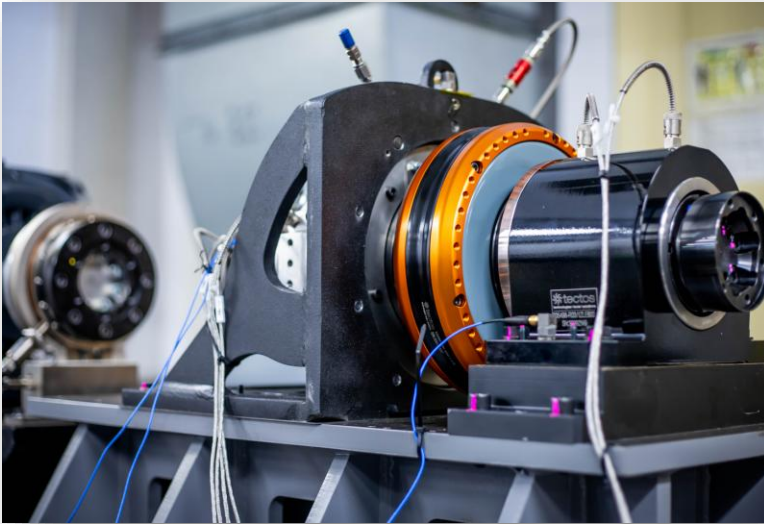
- ✓ Accurate transmission of torque and rotational speed
- ✓ Correction of misalignment
- ✓ Reduced bench-up and setup time
- ✓ Compact size that minimizes test-bench space requirements
- ✓ Vibration reduction
- ✓ Compatibility with dual-mass flywheels
- ✓ High rigidity
- ✓ Lower moment of inertia through weight reduction

» Specifications

Austria-based tectos offers a wide range of products covering low to high rotational speeds and low to high torque levels.

Standard type	Torque range: 0–8000Nm Speed range: 0–10,000rpm
High speed type	Torque range: 0–1,000 Nm Speed range: 0–25,000rpm

» Intermediate bearing system



» Feature

Installed on the drive train of the test bench, it accurately transfers engine output to the dynamometer. By supporting the applied load, it reduces the overall stress on the test bench and also helps protect the dynamometer in the event of abnormal vibration.

» Specifications

Austria-based tectos offers a wide range of products covering low to high rotational speeds and low to high torque levels.

Torque range: 0–6600Nm
Speed range: 0–25,000rpm



» Shaft guard



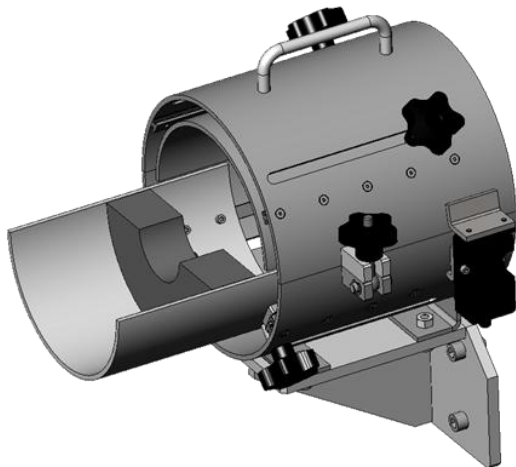
» Feature

This is a protective cover designed to prevent the scattering of shafts and coupling flanges. It helps ensure operator safety on the test bench.

» Specification

The guard is designed and manufactured according to the shaft length and center height.

To prevent the guard from being left open, an optional contact-signal output can be added to enhance operator safety.



» Engine stand and pallet



» Feature

This is an engine stand used to mount engines on the test bench. It improves efficiency in engine installation during engine testing.

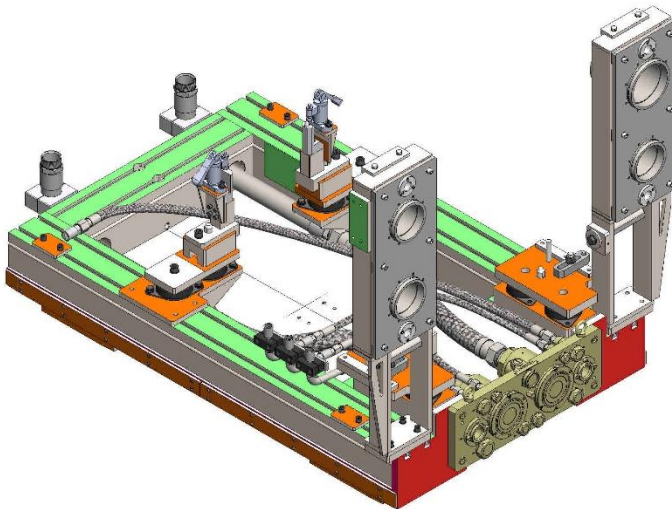
» Specifications

✓ Engine stand

The engine stand is designed and manufactured according to the specifications of the customer's engine. A single stand can accommodate multiple engine models, and adjustments can be made in the X, Y, and Z directions.

✓ Engine quick pallet

It enhances production-line efficiency by allowing engine oil and coolant connections to be made quickly through couplers.



» Angle plate



» Feature

A dedicated fixture for installing unit under test, enabling precise alignment on vertical and horizontal planes to maintain testing safety.

» Specifications

This fixture is fully custom-made to match the unit under test.

Based on dimensional requirements and strength calculations, we provide the optimal design proposal for the customer's testing needs.

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.

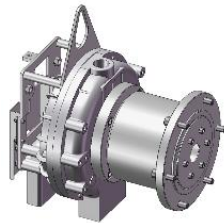
Contract



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

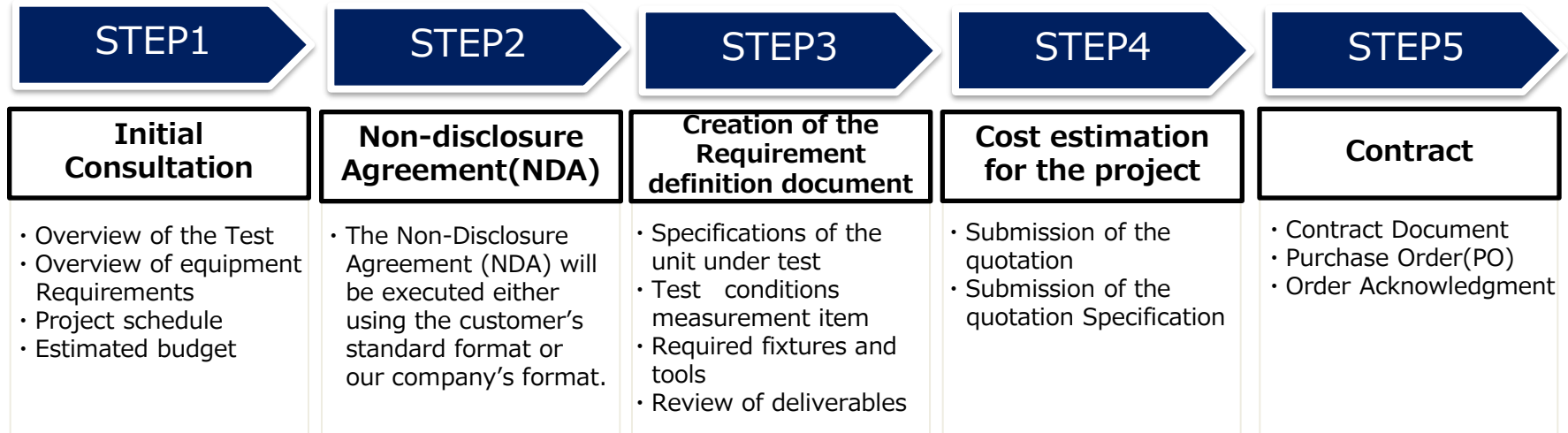


We provide long-term support even after product delivery.

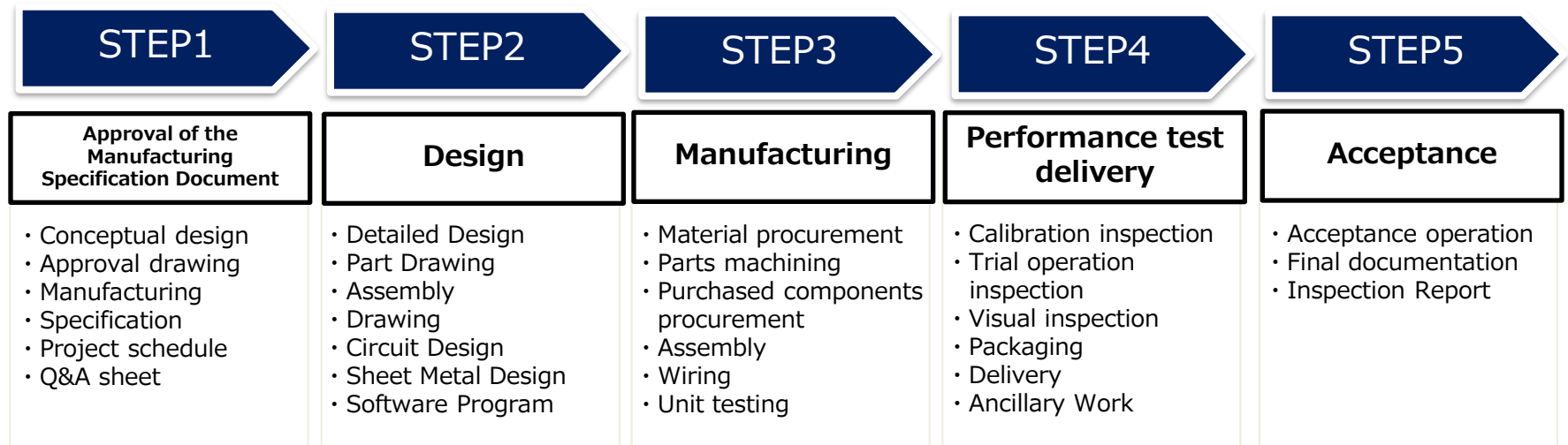
We offer prompt assistance anywhere as needed.

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

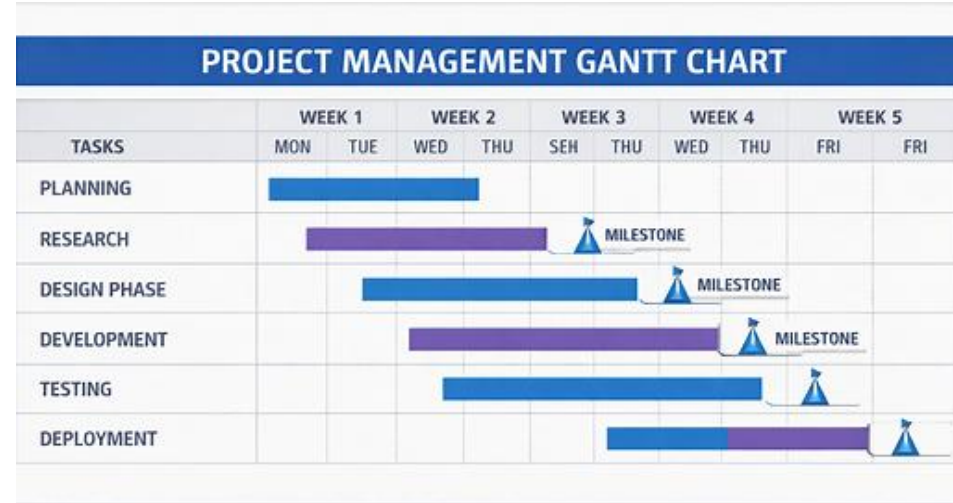
» Process from initial inquiry to contract finalization



» Process from project initiation to completion



» Project execution framework



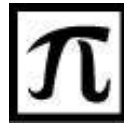
✓Project Leader and Assigned Members

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



Contact Information

Tokyo Plant Co., Ltd. – Sales Department

515-5 Miyazawa-cho, Akishima, Tokyo 196-0024, Japan

TEL: +81-42-546-6500 FAX : +81-42-546-6600

URL : www.tokyo-plant.co.jp

E-mail: sales@tokyo-plant.co.jp