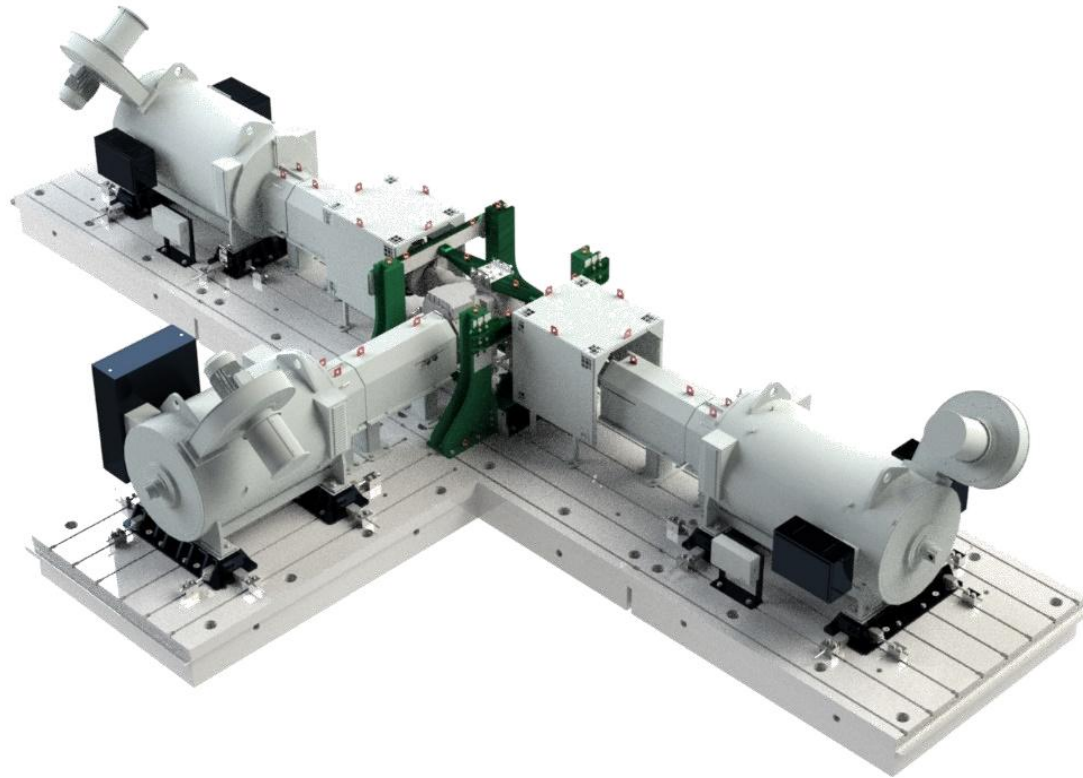




~Advanced Test System and Test Bench Engineering Professional~

Tokyo Plant Co., Ltd.



Powertrain test bench

Update 2026.08.13

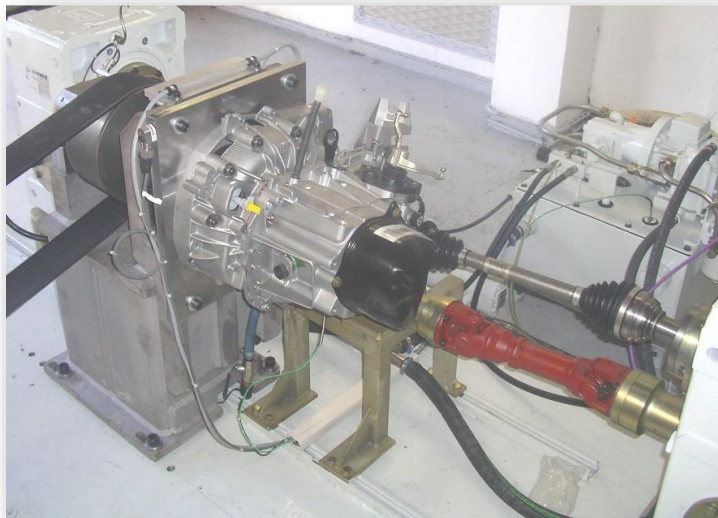
Copy right Tokyo plant Co.,Ltd.@2026

Our group — Tokyo Plant and ENORISE — provides powertrain evaluation test systems that deliver high precision and exceptional durability, and are widely adopted by customers both in Japan and overseas.

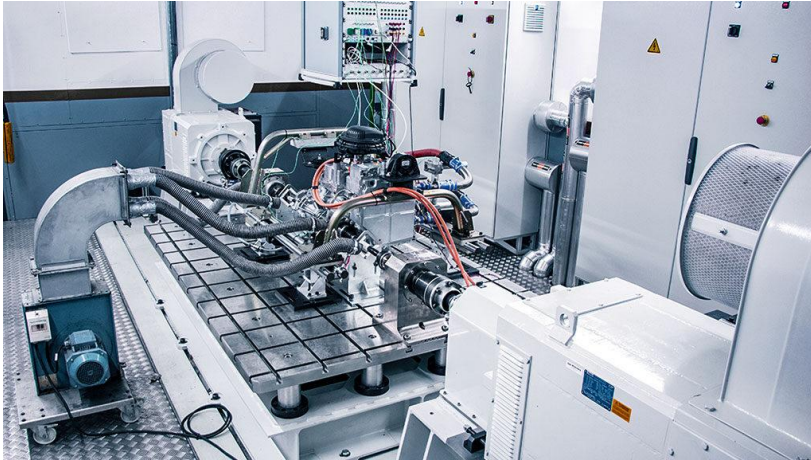


Main Tests

- ✓ eAxle Evaluation Test
- ✓ CVT Evaluation Test
- ✓ Gear-Shift Test
- ✓ Gear-Shift Characteristics and Durability
- ✓ Hot and Cold Testing
- ✓ Road-Load Testing
- ✓ Shift-Pattern Verification
- ✓ Anechoic Testing
- ✓ Simulation (MBD)



» eAXLE test bench



» Scope of the project

- ✓Automation system MORPHEE
- ✓2sets of AC dynamometer
- ✓Drive unit
- ✓2sets of Drive shafts

Feature)

Performance evaluation testing of the e-AXLE can be conducted using two dynamometers. By utilizing power regeneration, the system reduces the customer's overall energy cost.

» Wheel test bench



» Scope of the project

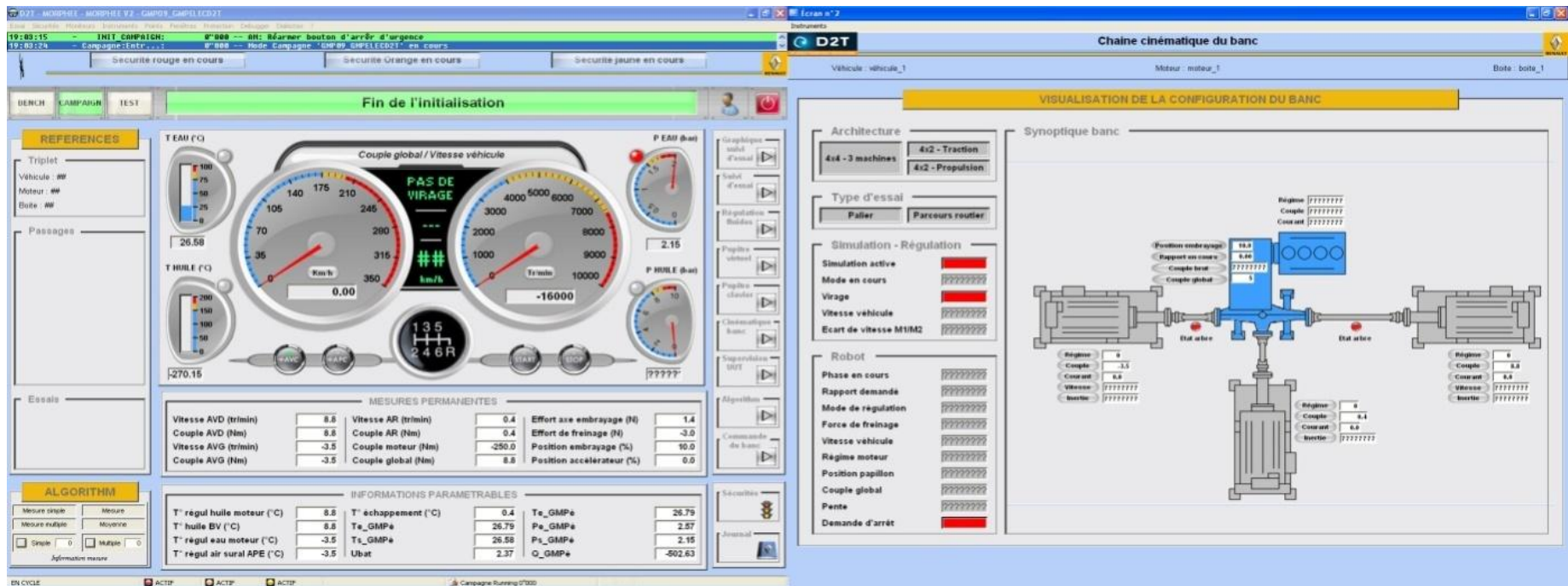
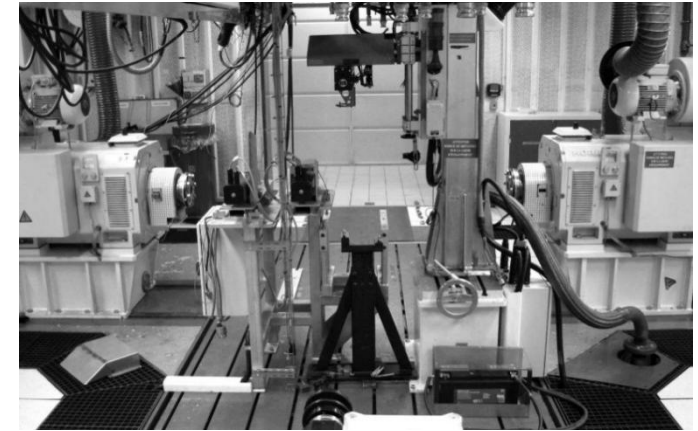
- ✓Automation system MORPHEE
- ✓4sets of PM dynamometers
- ✓Drive unit
- ✓4sets of shafts

Feature)

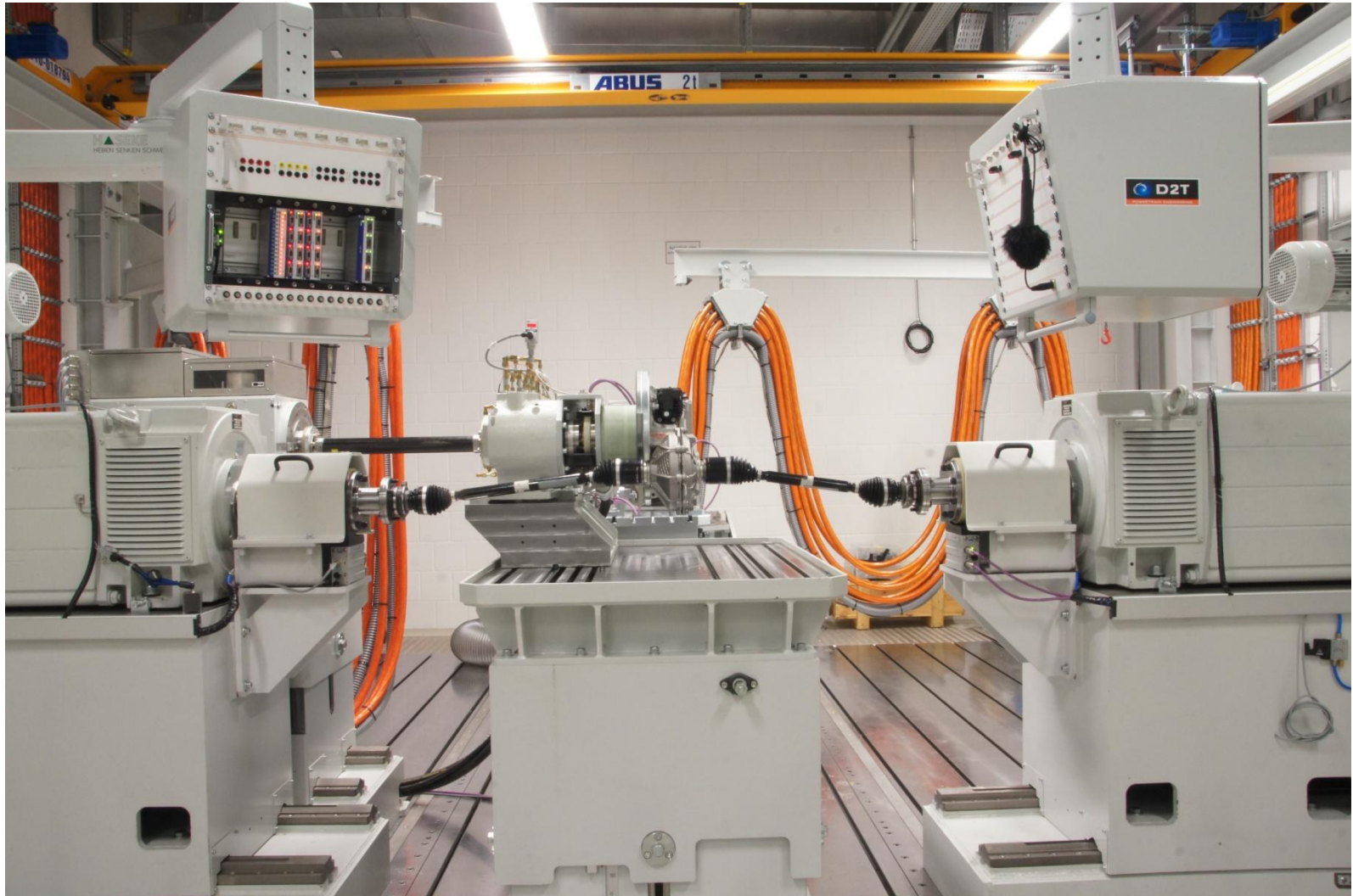
By directly connecting four dynamometers to the vehicle axles, the system can reproduce actual driving conditions, enabling exhaust-emission measurement, fuel-consumption testing, and performance evaluation of components such as the e-AXLE and transmission.

» Transmission test bench

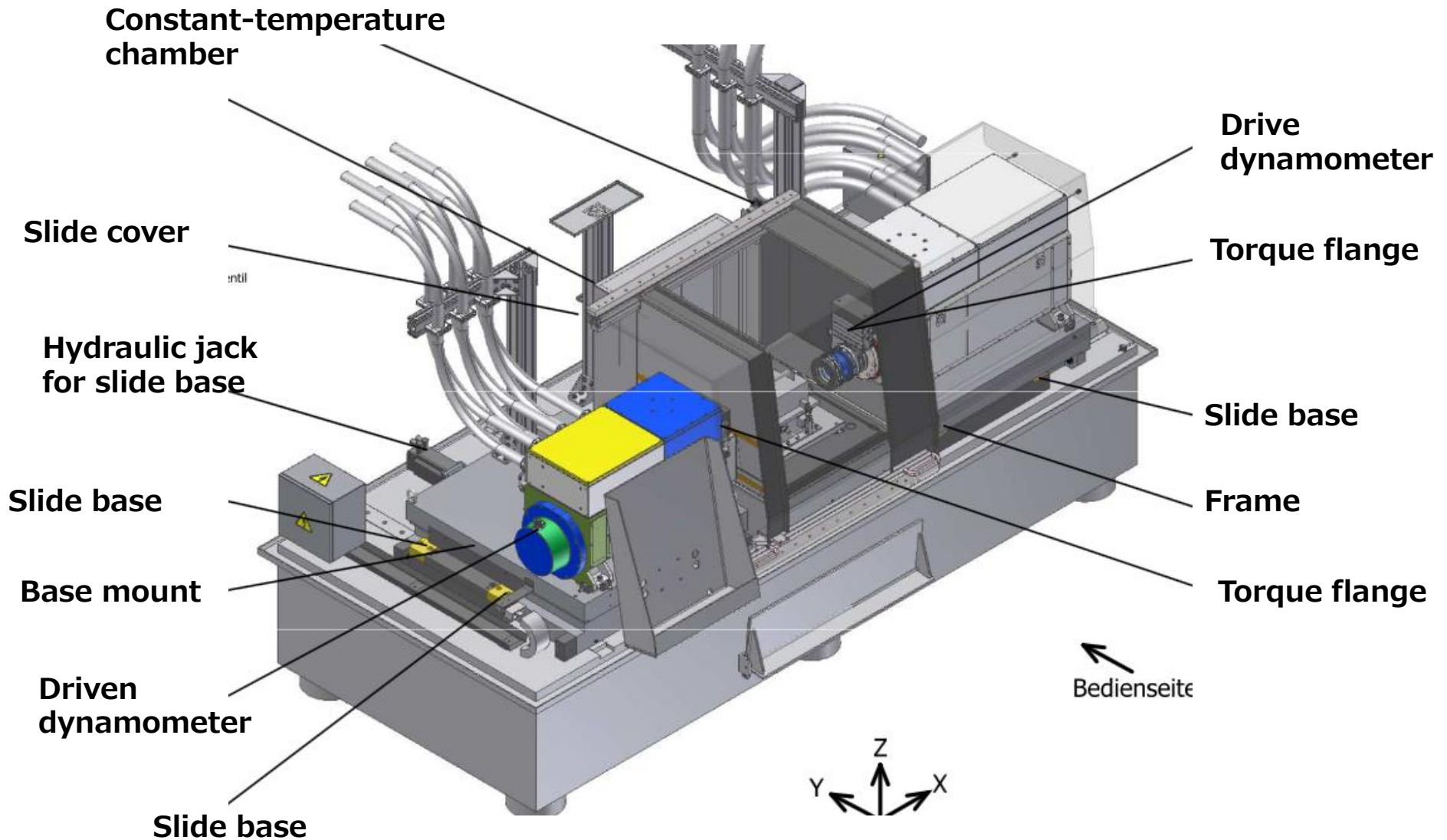
- ✓ Solutions Using Real-Time Models
- Supports drive-train testing from 1-axis to 5-axis configurations.



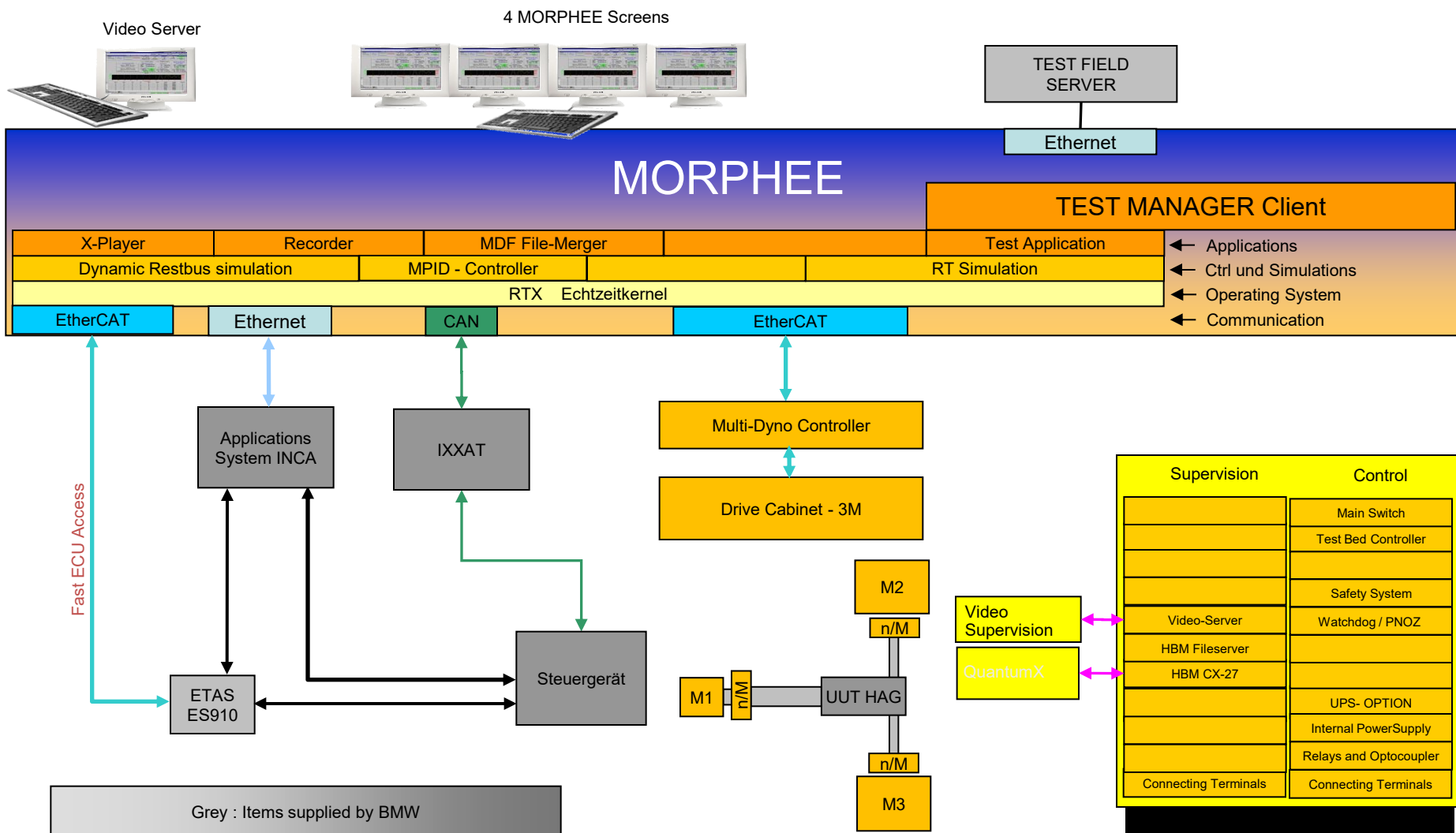
» Transmission test bench



» CVT test bench



» Test bench configuration



» Test bench for axle performance test

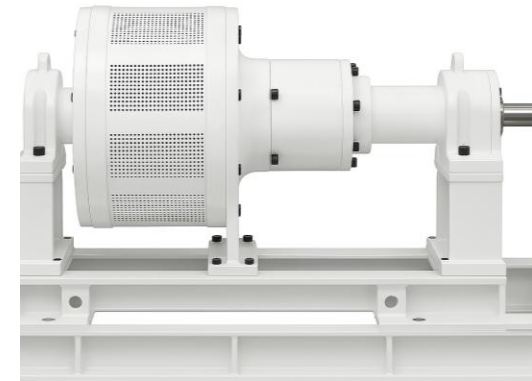


» Scope of the project

- ✓ 2 sets of disk brake dynamometers
- ✓ Control measurement system
- ✓ Air control unit
- ✓ Adapter for axle
- ✓ Frame (sliding type)

Feature)

We can perform characteristic evaluations of axle performance for agricultural machinery.



» Product Lineup For details, please refer to the product catalog.

Model	Main Specifications	Units under test
PCD type	30~100kW(1,500Nm)Low power/Low torque	Axle performance testing for construction and agricultural machinery
PKD type	120~345kW(50,000Nm)High power/High torque	

Custom specifications are also available.

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.

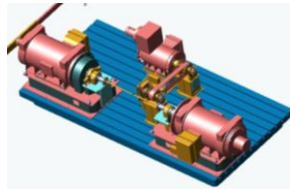
Contract



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

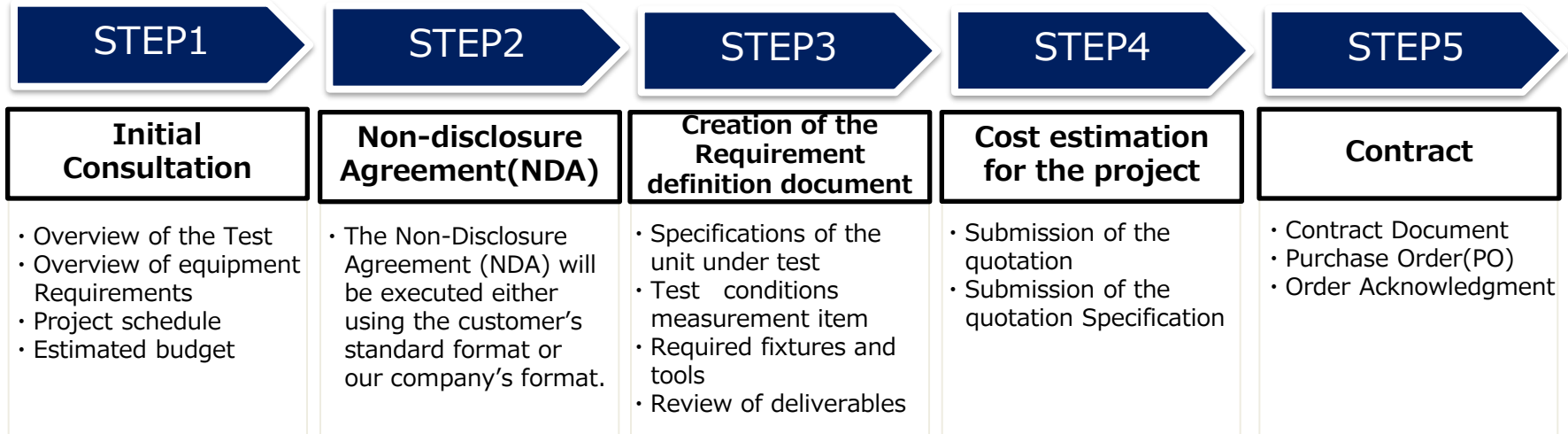


We provide long-term support even after product delivery.

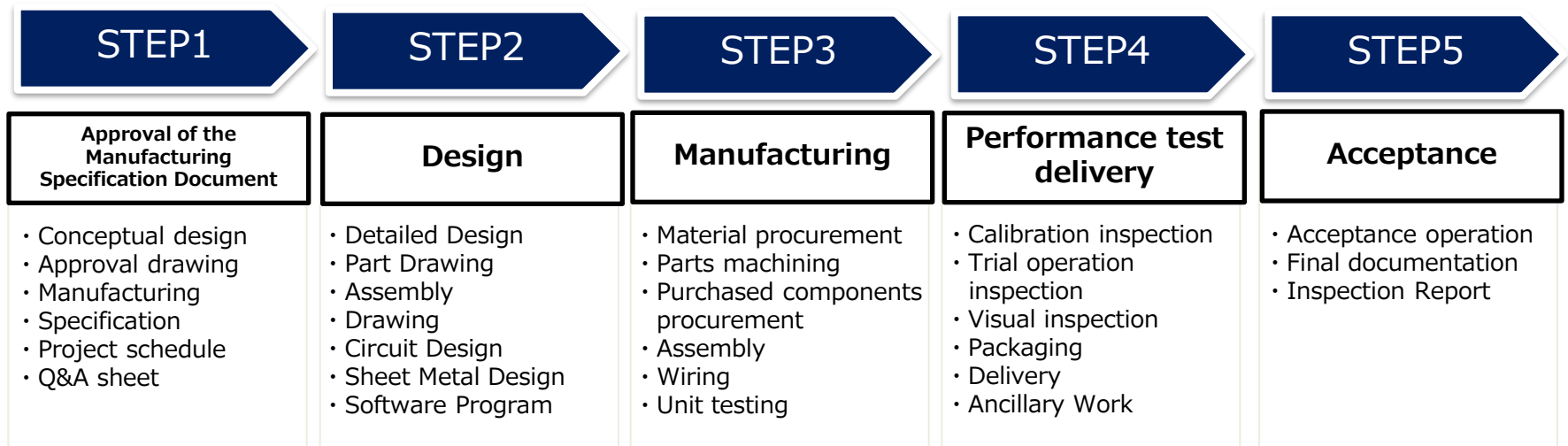
We offer prompt assistance anywhere as needed.

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

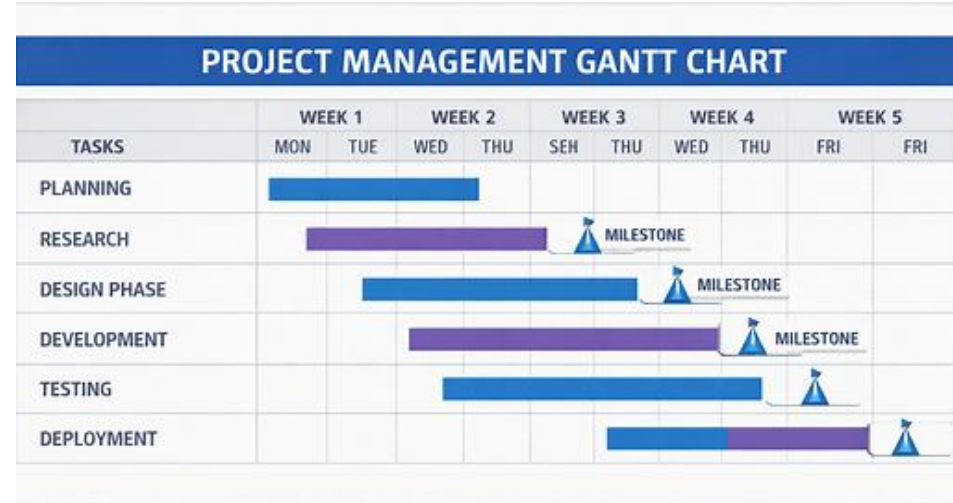
» Process from initial inquiry to contract finalization



» Process from project initiation to completion



» Project execution framework



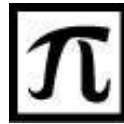
✓Project Leader and Assigned Members

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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