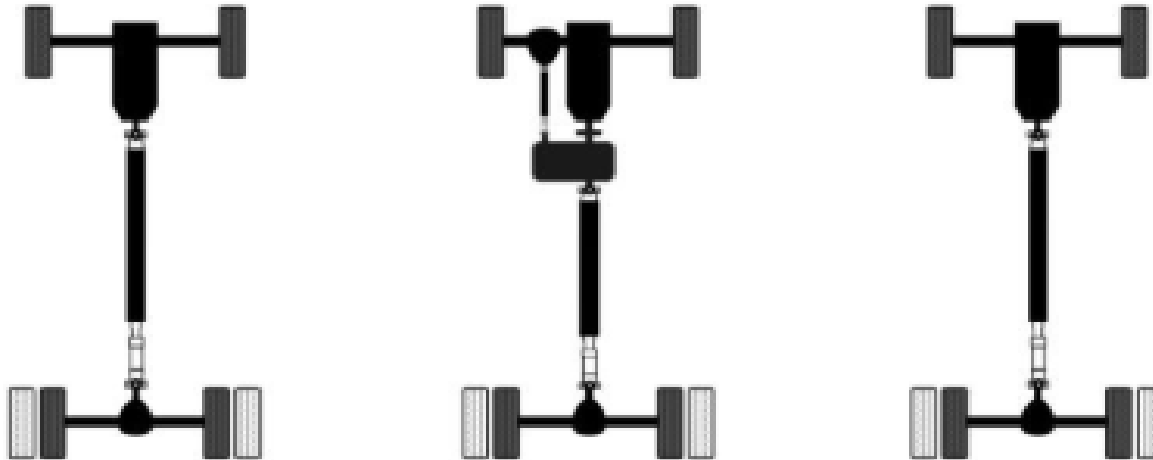




~Advanced Test System and Test Bench Engineering Professional~

Tokyo Plant Co., Ltd.



Wheel test bench

Update 2026.08.13

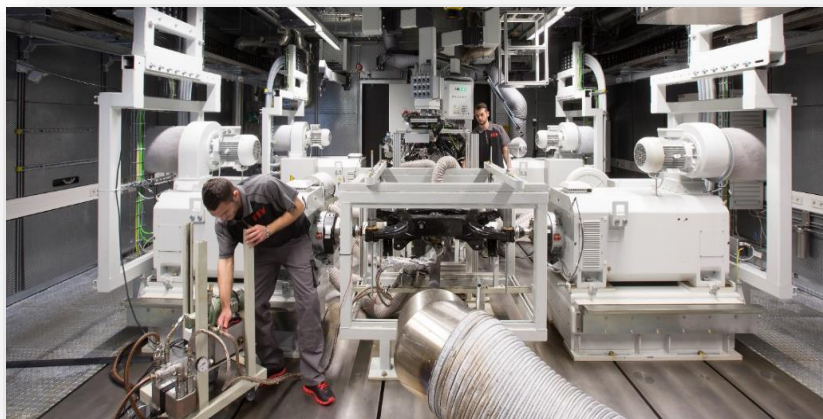
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Our group — Tokyo Plant and ENORISE — provides axle-performance evaluation test systems that deliver high precision and exceptional durability, and are widely adopted by customers both in Japan and overseas.



Main Tests

- ✓ Vehicle Evaluation
- ✓ Driver Simulation (MBD)
- ✓ Transmission Performance Evaluation
- ✓ Emission Testing
- ✓ Fuel-Efficiency Testing



Technical specifications

– Regulation associated with each Emission Test

Name		Regulation references
	ESC	European Directive 2005/78/EC
	ELR	European Directive 2005/78/EC
	ETC	European Directive 2005/78/EC
	NRSC_EU	European Directive 97/68/EC from march 2010 & ECE R96 Rev3
	NRTC_EU	European Directive 97/68/EC from march 2010 & ECE R96 Rev3
	SSC	Regulation and test cycle: EPA 40CFR 86N Engine testing procedure : 40 CFR 1065
	HD FTP 2007	Regulation and test cycle: EPA 40CFR 86N V2007 Engine testing procedure : 40 CFR 86 – raw gas emission analysis: ISO 16183 (Dec. 15 th 2002)
	HD FTP 2010	Regulation and test cycle: EPA 40CFR 86N Engine testing procedure : 40 CFR 1065
	FST	EPA 40 CFR 86 2010 edition
	NRTC_US 2010	Regulation and test cycle: EPA 40CFR 1039 & ECE R96 Rev3 Engine testing procedure : 40 CFR 1065 & ECE R96 Rev3
	NRSC_US	Regulation and test cycle: EPA 40CFR 1039 – 1042–1045–1048–1051–1054 & ECE R96 Rev3 Engine testing procedure : 40 CFR 1065 & ECE R96 Rev3
	JE05	MLIT Publication 619 2002 : appendix 41
	WHSC	UN ECE R49 revision 6 from March 4 th 2013
	WHTC	UN ECE R49 revision 6 from March 4 th 2013
	WNTE	UN ECE R49 revision 6 from March 4 th 2013

» 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.

Model	Rated power <i>kW</i>	Rated torque <i>N.M</i>	Base speed <i>min⁻¹</i>	Max speed <i>min⁻¹</i>	Moment of inertia <i>kg.m²</i>	Voltage (V) /Current (A)
DW200	200	2,500	764	3,000	0.64	440/800
DW255	259	2,810	879	4,000	2.833	460/425
DW335	337	4,200	767	3,500	8.880	460/528
DW360	361	4,600	750	3,000	7.1	460/860
DW430	420	5,200	791	3,500	10,98	460/671
DW505	506	5,200	929	3,500	10,98	460/783

※Specifications Notice: Please note that this specification is subject to change without prior notice due to ongoing improvements and updates.

※We also offer custom-specification products tailored to your specific requirements.

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.

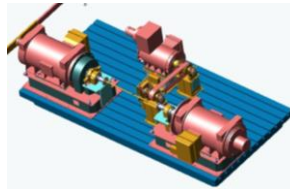
Contract



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

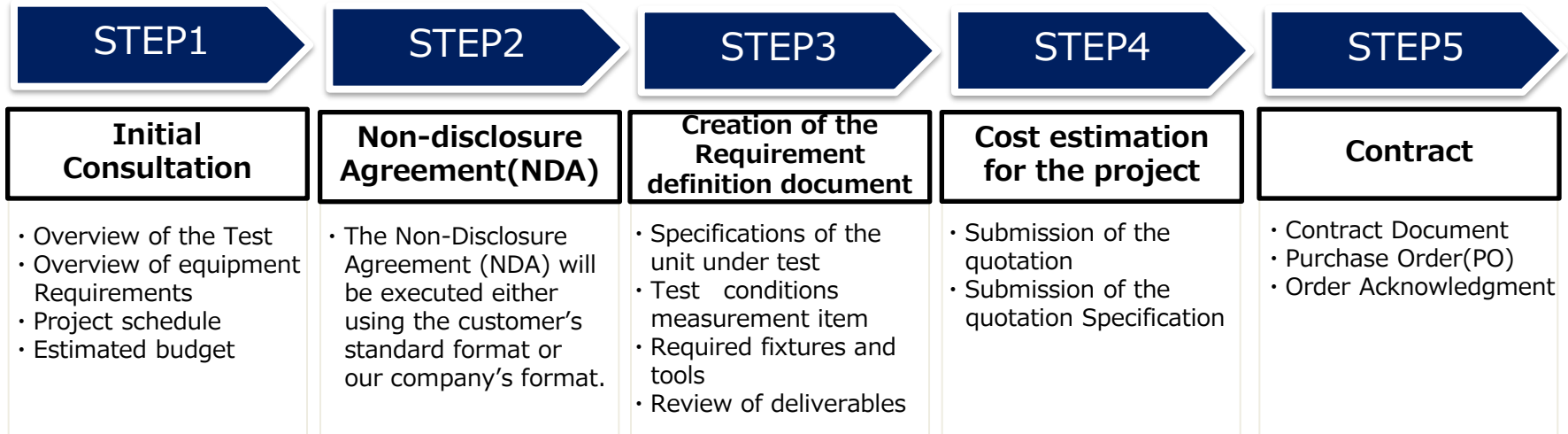


We provide long-term support even after product delivery.

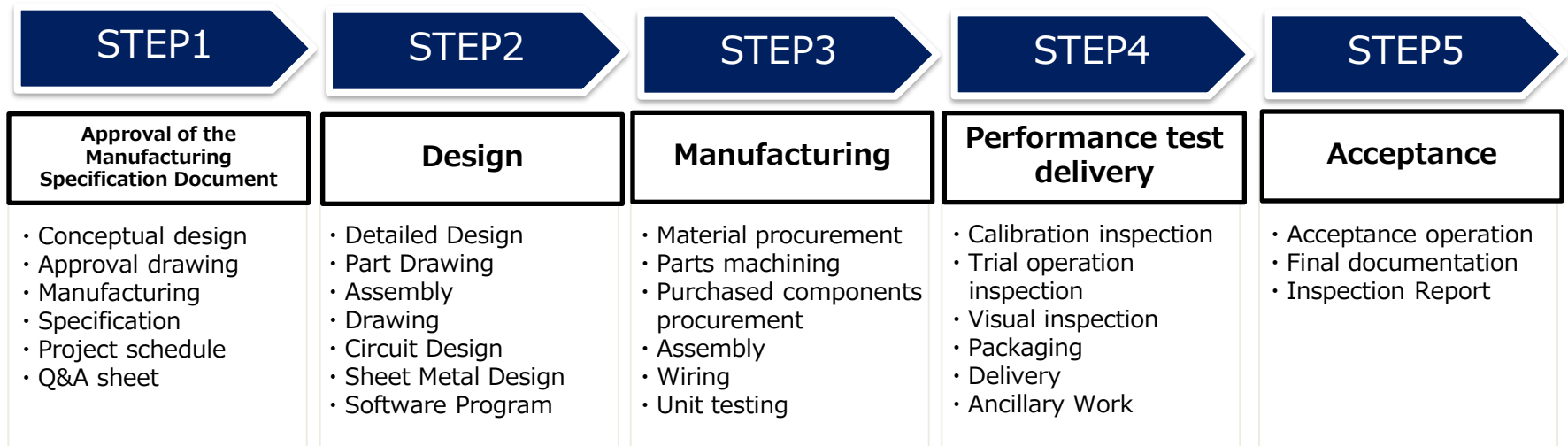
We offer prompt assistance anywhere as needed.

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

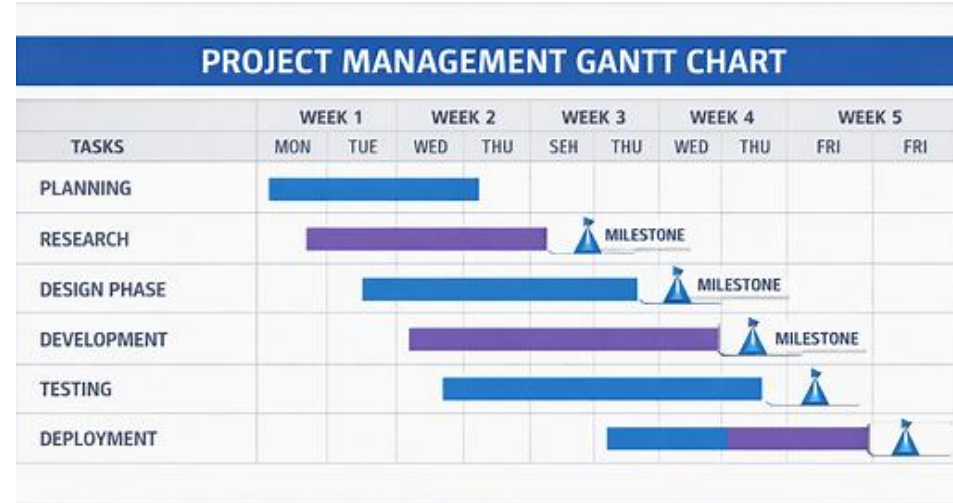
» Process from initial inquiry to contract finalization



» Process from project initiation to completion



» Project execution framework



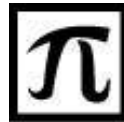
✓Project Leader and Assigned Members

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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