

MEIDEN Dynamometer System

MEIDEN
Quality connecting the next

General Catalog



We are “mobility”

Meidensha has been contributing to the advancement of mobility around the world for more than a century since delivering Japan's first DC dynamometer in 1920.

Moving forward, Meidensha will make use of our vast experience and product lineup to provide mobility product testing solutions.

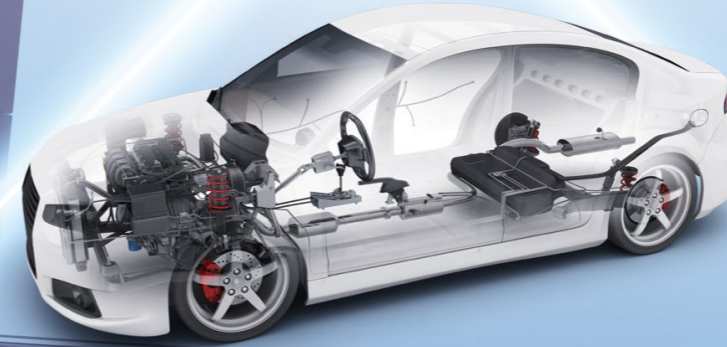
Stable product supply and quality supported by integrated manufacturing in Japan



01

Testing system solution

Providing the optimal systems according to customer needs



02

Turn-key testing facility contracting

Guaranteed equipment introduction to after-delivery maintenance



03

Testing service

Providing test cell flexibility



Meidensha's history in dynamometer products



»» Future mobility

To improve efficiency and quality in mobility development

Meidensha solves various issues customers face with a vast array of products and services.

Meidensha provides a broad range of services such as consultation on future plans, proposal of optimum equipment, construction to introduce equipment, maintenance, and expansion of functions after introduction.

Product quality improvement



01

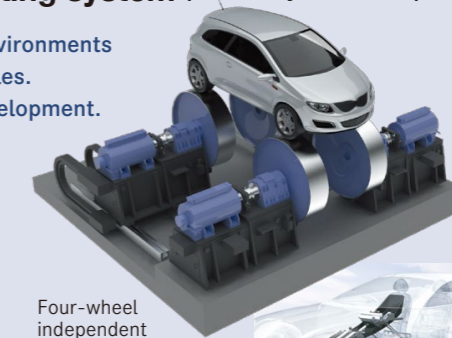
Testing system solution

Meidensha designs testing systems according to customer requirements from component testing to completed vehicle testing. Equipment can be expanded to meet future needs.

Completed vehicle testing system (chassis dynamometer)

Comprehensive testing in stable environments can be done using completed vehicles. This supports the final stage of development.

Specimen	Test details		
Actual vehicle	Exhaust gas test	Performance test	Durability test
	Environment test	Vibration and sound test	



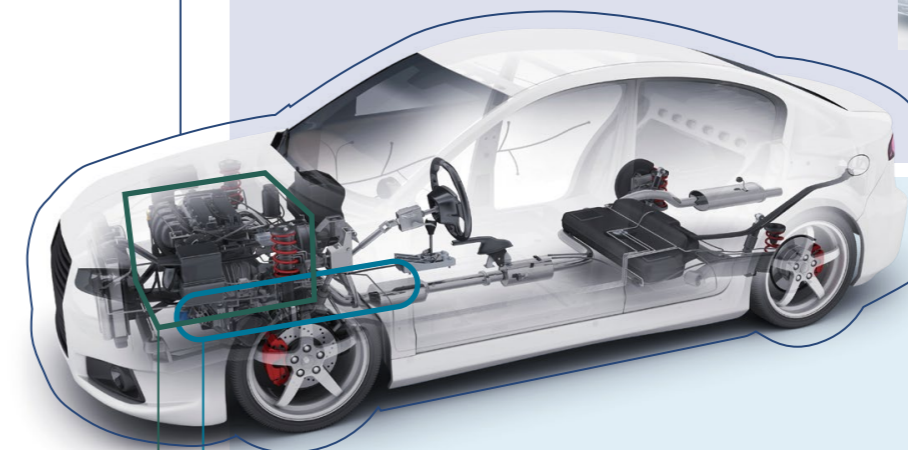
Four-wheel independent chassis dynamometer



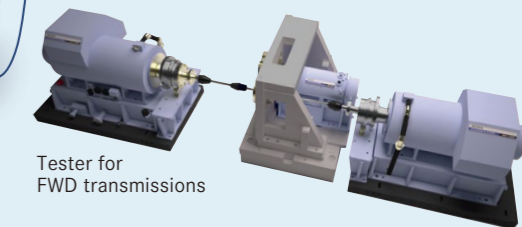
Image of test results



Low-temperature chassis dynamometer



TYPE-i driving robot

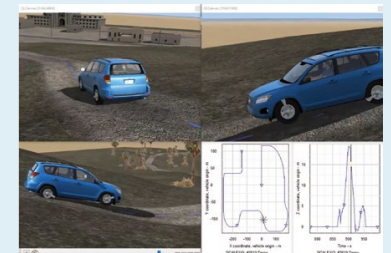


Tester for FWD transmissions

Powertrain testing system

Actual vehicle behavior can be reproduced in real time by operation/measurement panel and mechanical control unit for HILS.

Specimen	Test details						
Transmission (AT/MT/TF/differential)	EV	HEV	Torque converter	Performance test	Durability test	Environment test	Vibration and sound test
Brake	Belt	Muffler		Efficiency test	Compliance test		

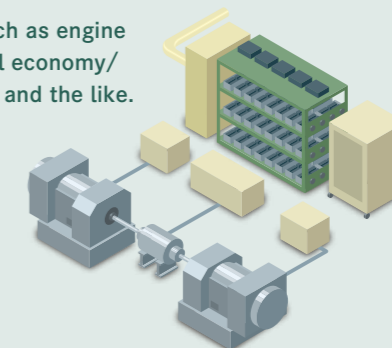


carsim HILS image with vehicle model and tester

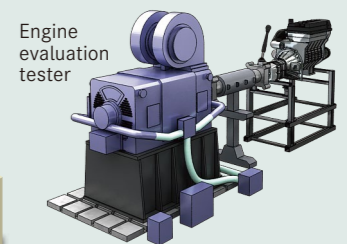
Component testing system (engine/motor bench)

This can be applied to various uses such as engine and motor power performance and fuel economy/exhaust gas testing, efficiency testing, and the like.

Specimen	Test details			
EV	Engine (gasoline/diesel)	Performance test	Durability test	Environment test
Outboard engine	Agricultural machinery engine	Vibration and sound test	Efficiency test	Compliance test
Auxiliary engine		Exhaust gas	Electrical power consumption	



EV powertrain validation system



Engine evaluation tester

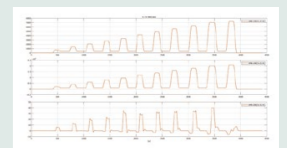


Image of test results

02

Turn-key testing facility contracting

We perform combined management of the procurement, construction, and processes of the building, dynamometers, and ancillary equipment that make up a test building, supporting the smooth introduction of test buildings. We also provide the optimum testing environment linked with dynamometer systems.

■ Building

Building design by qualified architects
Work/conveyance line consideration

Reduction of noise/vibration impact on outside environment

* Plan example: Building side view (image)

■ Ancillary equipment

Consideration of electrical system, board layout, and utility according to customers' usage environment

Electrical room

Air conditioning equipment

■ Dynamometers

Dynamometer installation wiring work

Engineering taking into consideration linkage with building and ancillary equipment

03

Testing service

We support customers' product development with an extensive array of testing equipment. Advance verification and joint verification of new products can also be done.

Japan

Dynamometer System R&D Laboratory

127 Nishi-shinmachi, Ota, Gunma, 373-0847 Japan

Components to completed vehicles can be tested.



EV testing room Chassis dynamometer testing room Drivetrain testing room Acoustical testing room



Examples of testing contracting

Test subject	Test content
Completed vehicle testing	Fuel economy and exhaust gas mode evaluation
	Actual vehicle durability pattern evaluation
Drivetrain testing	Gear change performance
	Load durability
Motor testing	General performance
	Pattern durability



America

MEIDEN AMERICA, INC.

Focusing on component testing , 24-hour-a-day durability testing can be performed



Drivetrain testing room Operation room



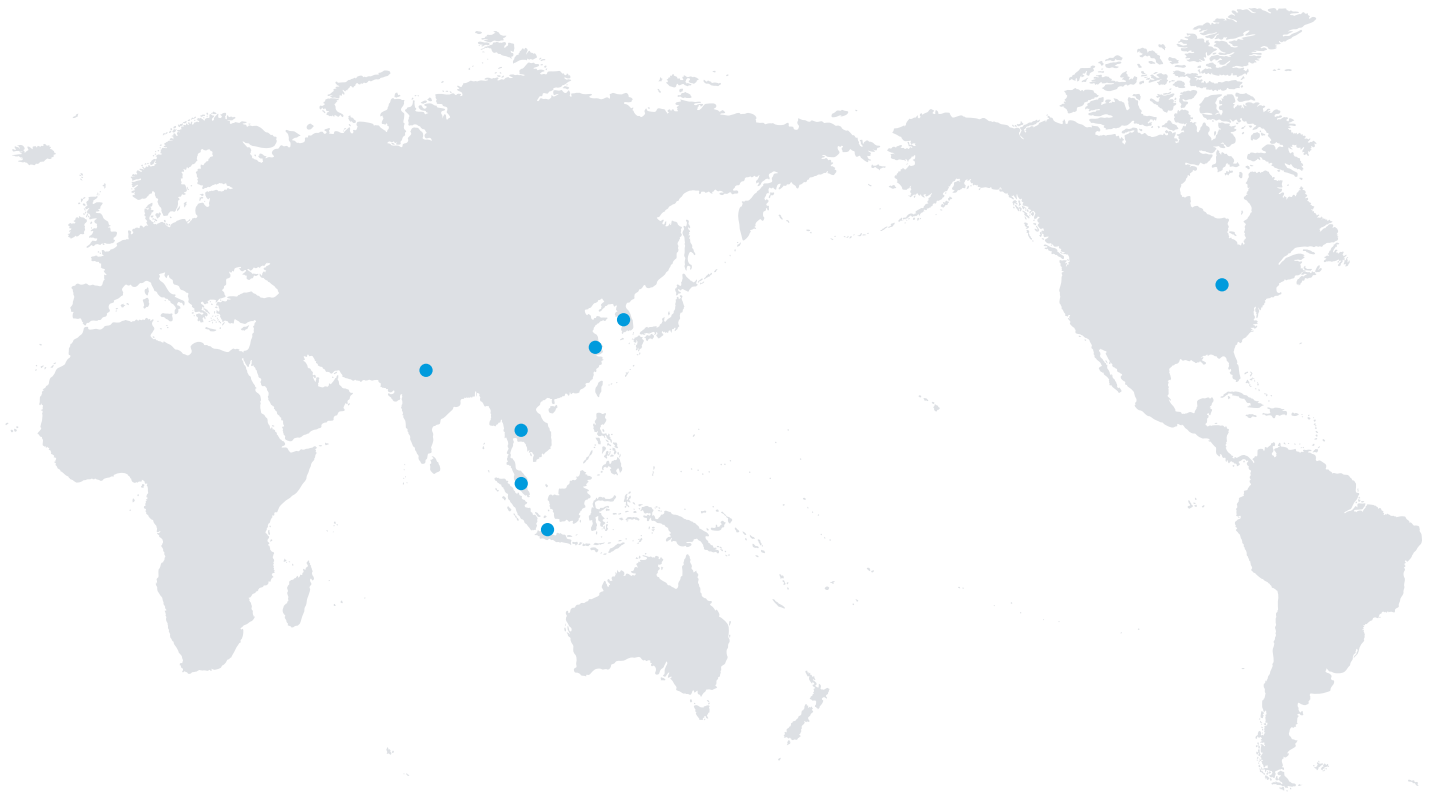
Examples of testing contracting

Test subject	Test content
Drivetrain testing	Shift quality
	Load durability
Engine testing	General performance
	Durability mode
Other	Joint development of new testing system



Network

Oversea sales location



Locations

The United States

MEIDEN AMERICA, INC.



Thailand

THAI MEIDENSHA CO., LTD.



China

MEIDENSHA (SHANGHAI) CORPORATE
MANAGEMENT CO., LTD.

Korea

MEIDEN KOREA CO., LTD.

India

MEIDEN INDIA PVT. LTD.

Indonesia

P.T. MEIDEN ENGINEERING INDONESIA

Malaysia

MEIDEN MALAYSIA SDN. BHD.



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