Low Inertial Dynamo Series

■High-Speed, Low Inertia Dynamo Series	Rotational speed : Up to 10000min^{-1}	Output : Up to 505kW
■High Torque, Low Inertia Dynamo Series	Rotational speed : Up to 4000min^{-1}	Output : Up to 535kW
■Ultra-High-Speed, Low Inertia Dynamo Series	Rotational speed : Up to 20000min^{-1}	Output : Up to 275kW

Note : For motors over 16,000min^{-1}, please inquire with Toyo Denki. Dynamos can be customized to customer needs.

Virtual Simulator Series

■Battery Simulators	Output : Up to 250kW　Voltage : Up to 750V　Fixed current : Up to 500A
■Motor simulator	Please contact Toyo Denki for detailed information.

Program controller

■Pattern driving	Simulation driving using selectable pattern
	Automatic drive mode, upper/lower limit protection setting
■Model driving	Vehicle model, engine model (simulation of explosively variable torque, etc.)
	Note: Please contact Toyo Denki for detailed information.

TOYODENKI

This brochure and its contents are subject to change without notice.

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TOYODENKI

Toyo Denki
Testing System for Automobiles

Next-Generation Vehicle Development
System cuts development times
and enhances performance

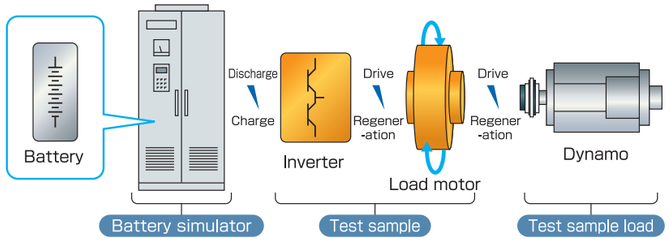
Toyo Denki **Testing System for Automobiles**

Testing equipment adaptable to customer needs. Cuts development times and enhances performance for next-generation vehicle development such as for EVs and HEVs.

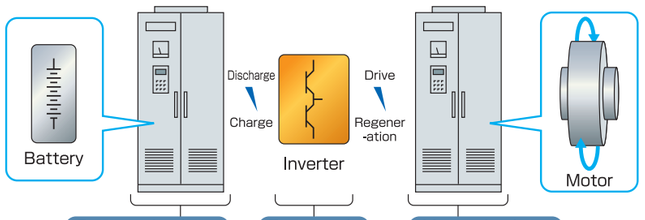
EV/HEV Testing Equipment

Electrical Component Evaluation System

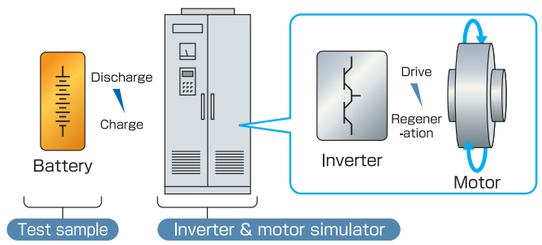
■Battery Simulator (Inverter and Motor Evaluation)



■Battery Simulator and Motor Simulator (Inverter Evaluation)



■Inverter and Motor Simulator (Battery Evaluation)

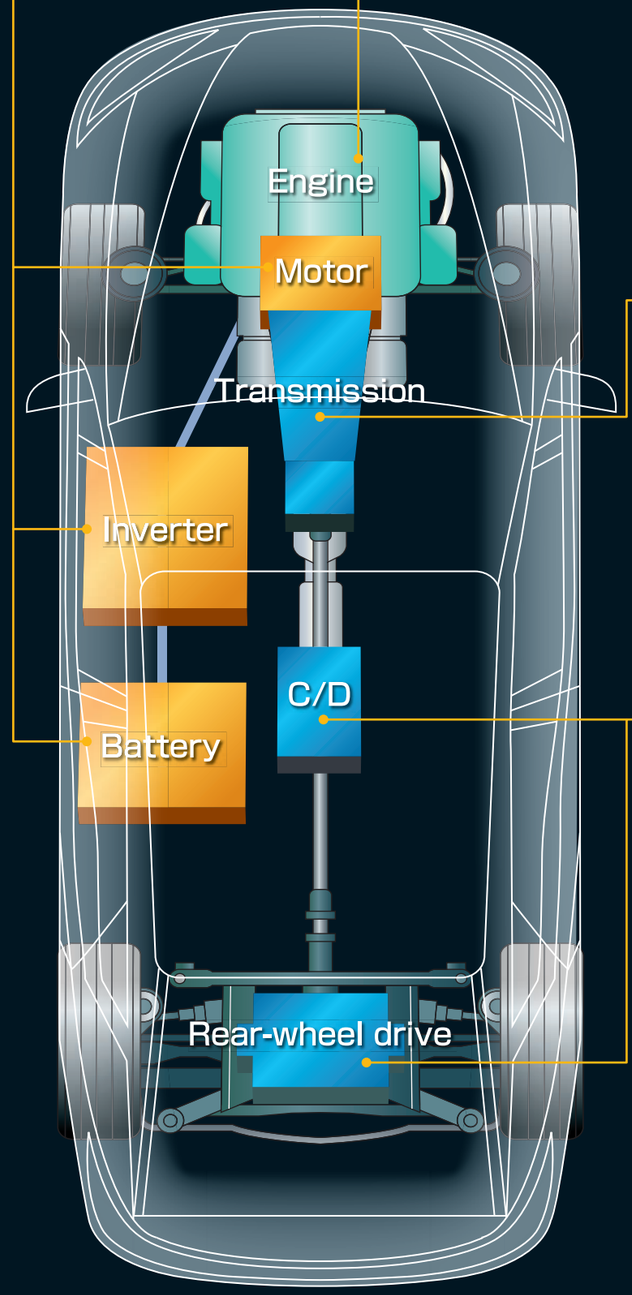


Features
- Simulates electrical components.
- Incorporates motor and inverter manufacturing technology by Toyo Denki.
- Can be customized to customer requirements and applications.

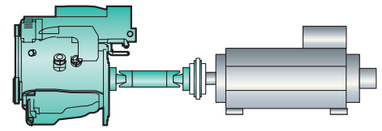
Other Testing Equipment

- Standalone motor　Measurement equipment for motor electrical constant
- Variable torque measurement equipment
- CVT belt
- Clutch
- Torque converter
- Brake
- Reduction gear

Note: Can be customized to customer specifications.

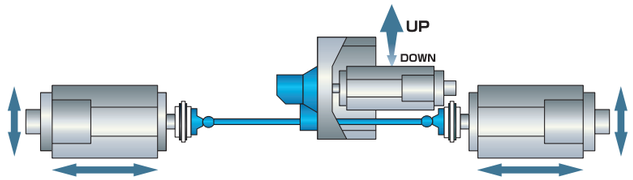


Engine Testing Equipment



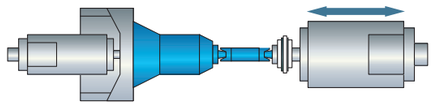
Feature
- Reproduces drive characteristics of a real vehicle through virtual control of engine load (engine virtual and real simulator, or VRS).

FF Transaxle Testing Equipment

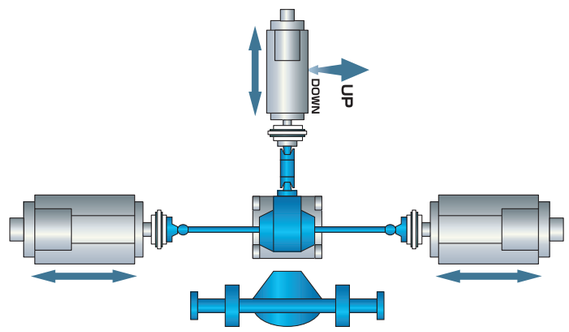


Features
- Uses high-speed, low inertia motor to enable transient operation simulating a real vehicle.
- Offers virtual engine model control and virtual vehicle model control to simulate real vehicle drive characteristics from a bench testing machine.

FR Transmission and Differential Gear Testing Equipment



Feature
- Uses high-speed, low inertia motor to enable transient operation simulating a real vehicle.



Features
- Drive motor height adjustment mechanism enables simulation of drive characteristics using same engine mounting as real vehicle.
- Differential RPM and differential torque control simulates driving characteristics of a real vehicle.
- High output dynamo reproduces acceleration test driving.