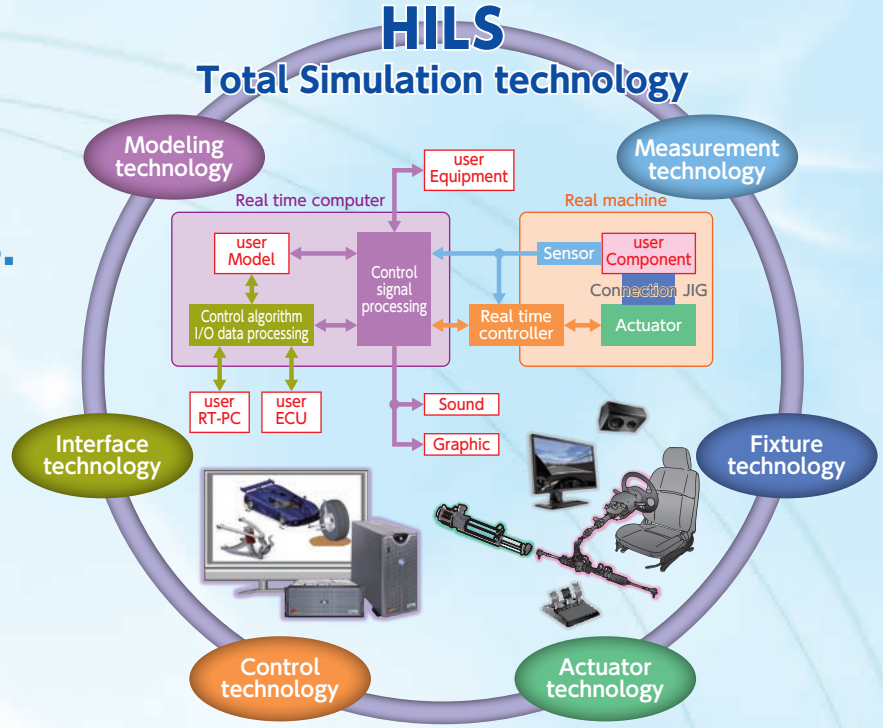


Steering HILS

CRH SERIES

New simulation
Technology for MDB.



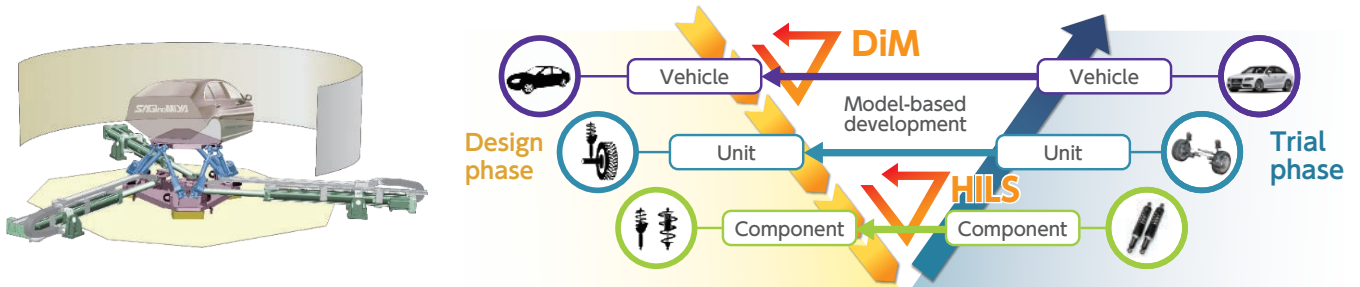
Steering HILS

From concept design to prototype completion.
Making the MBD V-Model development a reality.

While development process of vehicle electrification, ADAS/autonomous driving and safe technologies becoming increasingly complicated and sophisticated. Model-based development (MBD) is getting attention by improving the efficiency of vehicle development. With the experience of the successful DiM driving simulator. SAGINOMIYA SEISAKUSHO, INC. is presenting the new steering HILS testing system to the industry.

Features

Equipped with our highly responsive linear motor actuator, the Steering HILS can simulate input to the steering system in real-time with high accuracy. Operating with a variety of software and platforms is also available. Making different kinds of testing concepts possible.



Standard model & platform

VI-CarRealTime is used for the vehicle model and i-Hawk is adapted for the platform. Real-time platform configuration is similar to driving simulator DiM. It is also possible to link with DiM.

Map type model

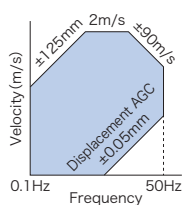
With the simplified model that can define the reaction force against rack displacement (forward & backwards separate), a reasonable HILS system can be built even without a high-cost model and platform.

Coordination with external platforms

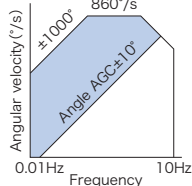
Coordination with other real-time platforms is available. Results of rack load and rack displacement can be interchanged from the input/output panel. We also provide embedded consultation for your portion model.

Specifications

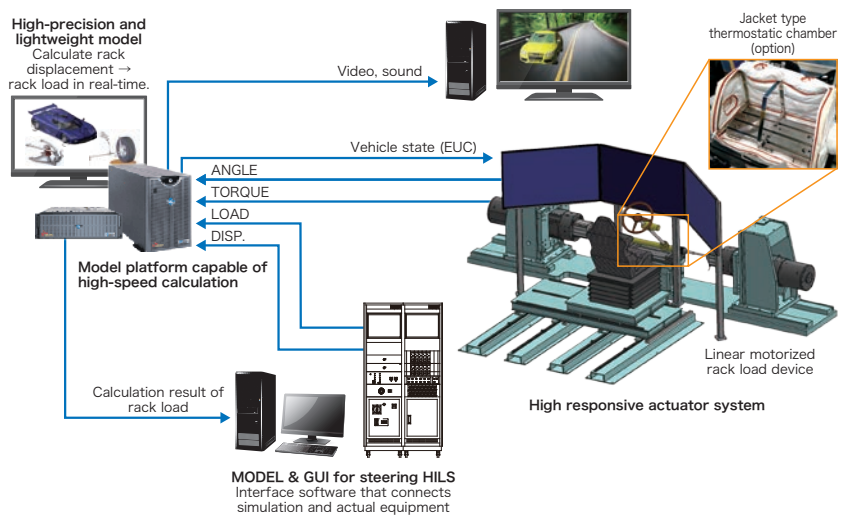
- ① Rack load device
- Dynamic rated force $\pm 7.5\text{kN}$
 - Sine wave force $\pm 10\text{kN}$
 - Max. instantaneous force $\pm 12\text{kN}$
 - Max. stroke $\pm 125\text{mm}$
 - Max. velocity $\pm 2\text{m/s}$



- ② Steering input device (Option)
- Max. torque 45Nm
 - Max. angle $\pm 1000^\circ$
 - Max. velocity $860^\circ/\text{s}$



System Configuration



SAGINOMIYA
SEISAKUSHO, INC.

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NOTES FOR SAFETY

Failure to read and follow all instruction carefully before installing or operating the product could cause personal injury and / or property damage.

Specifications are subject to change without notice.