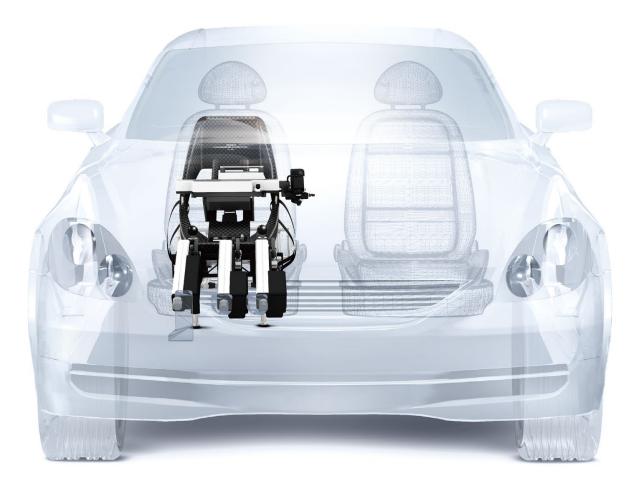


Drive Robot



Drive Robot **TYPE**-i

Supports performance, durability, and drive cycle test on Chassis Dynamometers.

The lightest drive robot on the market-23.5kg. Portable and Easy to install.

Operate the vehicles accelerator, clutch, gearshift, brake,

or ignition with precision actuators to simulate the driver running any automotive drive cycles.

The drive robot is adaptable to different vehicles, and is portable, so it can be easily shared among multiple vehicles in other test cells.

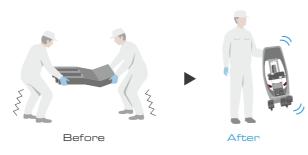
Actuator weight



※ compared to our previous products

New design and reduced weight make setup fast and easy.

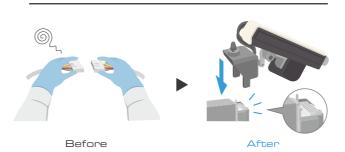
1 One Person Setup



Fewer part & lower weight, along with a simple 3-point mounting system, allows for one person installation and setup.

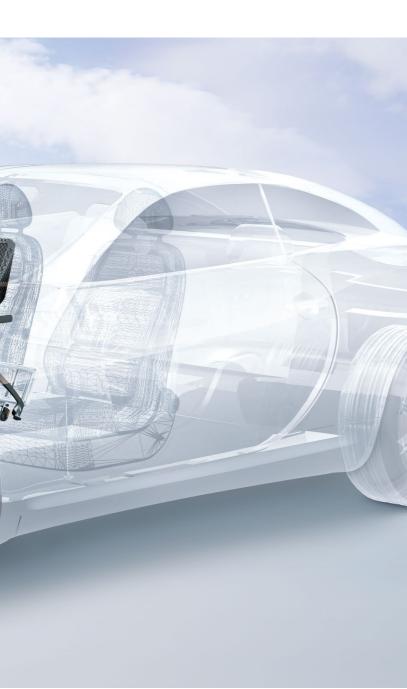
Patent applied for

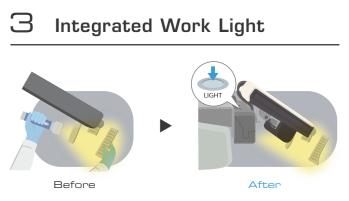
2 Simple Installation



Plug-in actuators do not require a cumbersome wire harness, reducing installation time (Installation time of 5 minutes).

Patent applied for % Not including actuator adjustment





Includes an integrated LED light as standard. The light illuminates the pedal position freeing both hands during adjustments.

Patent applied for

Drive Robot Operation

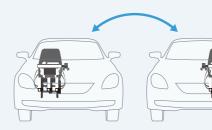


1 Simultaneous Vehicle Data Measurement



Vehicle data can be obtained simultaneously with the drive robot's data. Check the current status of the vehicle being tested by measuring and comparing real- time driving conditions. %Standard PID measurements only, some data type may not be supported depending on the vehicle.

2 Left/Right Hand Drive Support

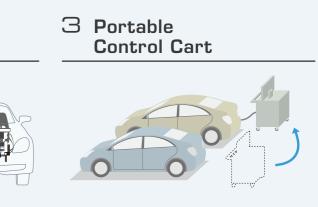


Shift actuator supports both of left/right hand drive.Easily switched without tools. Patent applied for

4 Improved Driving Accuracy



Improved drive robot control accuracy by learning the steady- state and transient characteristics of the vehicle.



Sharing among multiple chassis dynamometers reduces drive robot idle time and increases their utilization rate.





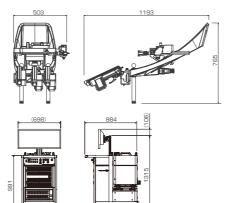
Safe and secure operation from the control room through connection to a remote PC.

%Remote PC is optional. A LAN cable connection is required between the drive robot and the control room.

Drive Robot Specifications



| A Accel Actuators Accel Actuators |
|---|
| B Brake Actuators Brake Actuators |
| C Clutch Actuators Clutch Actuators |
| D Shift actuators Shift actuators |
| E Frame ····· Frame |
| F Support Legs |
| G Sling belt fixing bracket control unit Sling belt fixing bracket control unit |
| H Control wagon For actuator control and setting |



Basic Specification

| Operation Functions | Speed control (time and distance based) Accelerator pedal opening control Brake ON/OFF |
|--------------------------|---|
| | Clutch engage/disengage |
| | Shift position selection |
| | Actuator stroke range adjustment |
| Learning | Driving force characteristic recording |
| function | Transient characteristics recording function |
| Mass | Actuator: 23.5 kg (including frame, shift |
| | including accelerator pedal, brake, and clutch actuators Portable Control Cart: 150 kg |
| | |
| Editing | Driving schedule editing |
| Function | 1 mode, max. 200,000 steps |
| | Out of tolerance judgement (judgement error) function Step shift condition (time, distance, measurement) |
| Display | Analog display, digital meter, bar graph, and |
| Functions | Chronological order display |
| Measurement Functions | Sampling cycle Ims minimum |
| | Scheduler interlocking function |
| | Results output (CSV/MAT/ATFX) |
| | General-purpose AO output |
| | OBD information measurement |
| | |
| Usage | Actuator: ambient temperature: 0-40°C, |
| Environment | ambient humidity: RH30-80 |
| | Control wagon: ambient temperature: 0-40°C, ambient humidity: RH30-80 |
| Option | Seat cover, instrument mounting fixture |
| - F | C C |

Screen Example



%Two types of support legs are included. Size S: 140mm-220mm, Size L: 240mm-360mm *The chucking, sling belt & fixing bracket at the end of the shift actuator can be removed and replace.

Actuators and Control Wagons

| Object of Operation | Rated operating force | Stroke |
|------------------------|--------------------------|------------|
| Accelerator | 160N | 150mm 0.2s |
| Brake | 400N | 200mm 0.4s |
| Clutch | 250N | 200mm 0.3s |
| Shift | 140N | 250mm 0.2s |
| Select | 120N | 200mm 0.2s |
| Ignition | 0.6Nm | 360° |



Portable Control Cart

A touch panel operation screen is included. It can be operated from a standing position in the test cell. Casters allow it to be moved and shared among other test cells.



Network







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