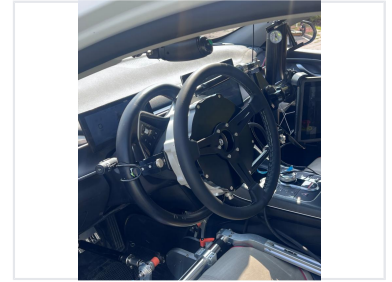


Automotive Steering Test Robot

This steering robot applies precise, controlled inputs to a vehicle's steering system. It facilitates stable, reciprocating rotation for automotive testing and research.



Overview

Precision Automotive Steering Test System

The Automotive Steering Test Robot is a high-precision experimental instrument designed for advanced vehicle testing and research. It utilizes a brushless direct drive motor to apply controlled inputs to the steering system, enabling stable reciprocating rotation and accurate path following. This ultra-compact and lightweight system is ideal for extended maneuvering stability experiments and real-world driving simulations.

Performance

Key Performance Metrics

0 Minimized

Internal Resistance

0 Minimized

Moment of Inertia

Technical Features

Motor Type	Brushless direct drive motor
Operation Characteristics	High-torque, Low-friction, Precise Control
Feedback System	Integrated high-precision torque sensor for real-time feedback

Design & Mounting

Mounting Compatibility

- Steering wheel mounts
- Steering column mounts

Design Attributes

Ultra-compact • Lightweight • Low Inertia

Applications

Primary Use Cases

- Stable reciprocating rotation testing
- High-precision path following
- Maneuvering stability experiments
- Automotive research and development
- Driver assistance system development

Control Capabilities

Variety of control templates available for extended maneuvering stability experiments