

EPS Power Steering System Test Line

The power head test line is applied for testing and adjustment of the EPS power steering system, including inspection on torque, noise, vibration and the control of ECU in simulated running conditions. This automated testing line incorporates multiple testing stations, each equipped with advanced sensors, actuators, and control systems to simulate real-world driving conditions.



Overview

EPS Power Steering System Test Line

The power head test line is designed for the comprehensive performance testing and adjustment of EPS power steering systems. This system enables automatic inspection of torque, noise, vibration, and ECU control under simulated running conditions. It provides high-accuracy testing with detailed reporting, ensuring quality validation for various EPS power head models.

Testing Capabilities

Key Testing Functions

- ECU Programming/Flashing
- Dual Station Rake & Reach Testers
- Column tilt holding force
- Rake force/Reach force
- Lever force and adjustment
- Noise analysis
- Dual Friction & Performance Testers
- Friction torque
- Static & Dynamic testing

Performance Metrics

Core Inspection Parameters

Torque Output, Noise Analysis, Vibration, ECU Control, Steering Assist, Energy Consumption, Response Time

System Design

System Features

Automated Inspection • Modular Design • Simulated Running Conditions • Real-time Data Acquisition • Detailed Performance Reporting