

STARS BRAKE

Test Automation System for Brake Dynamometers

STARS Brake is an integrated automation, data acquisition and control system platform that provides a comprehensive application functionality in a single, powerful environment. STARS Brake is designed to address the needs of a wide range of brake testing applications from component development to final component and system validation. It offers users a level of flexibility and openness that enables thorough investigations of brake systems.

FEATURES

- One platform for selection of vehicle, axle and brake parameters as well as programming and execution of tests
- Brake pressure, torque or deceleration control modes
- Speed, inertia and road load simulation control
- Time, temperature or event controlled braking cycles
- Regenerative braking functions can be easily integrated and manipulated through familiar MS Excel table format
- NI-DIAdem comes integrated into STARS Brake for user friendly post-test analysis and reporting
- Operating platform based on Windows 10



EMISSIONS



ELECTRIFICATION



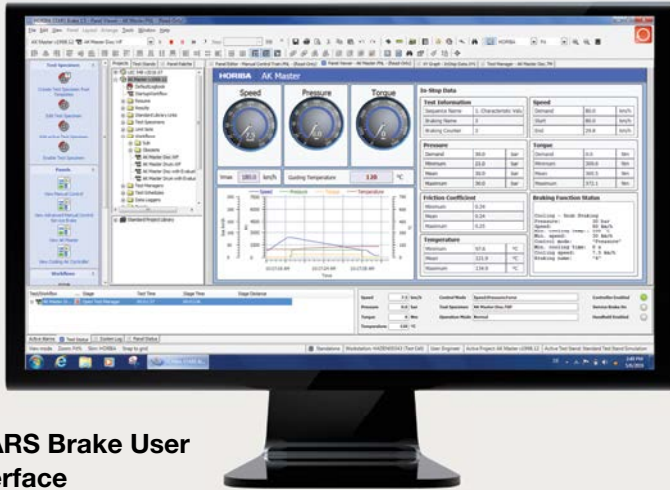
CAV



DATA

STARS Brake and Electrification

HORIBA has also integrated regenerative braking into STARS Brake, enabling the user to accurately reproduce realistic test conditions and simulate the in-vehicle operation these new systems have on the vehicles' brakes. STARS Brake has the ability to incorporate the regenerative braking algorithm developed by the manufacturer, providing the user the ability to determine the effect on the brake system.



STARS Brake User Interface



NI-DIAdem Reporting Interface

KEY BENEFITS

FLEXIBLE

- Operation on single dynamometer or across complete test field
- Usage of common libraries to store and run tests for more than one project without modification

SIMPLE

- Intuitive user interface
- Projects and dynamometer configurations accessible from all workstations
- Shared instrumentation definitions and calibration data

POWERFUL

- Users can program and customize their own test programs (e.g. create custom variables)
- Customer specific regenerative braking algorithms can be integrated and fine-tuned during investigations
- Automatic test validation, results analysis and report creation with NI-DIAdem

SECURE

- Password protection to control various user groups
- Definition of individual access rights per user group

HORIBA Automotive, a business segment within the HORIBA Group, provides advanced mobility leadership and comprehensive engineering and measurement expertise to support the gradual shift from traditional propulsion, to fully electrified solutions.

horiba.com/automotive

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