

Swirl Rig Upfit with CyFlex

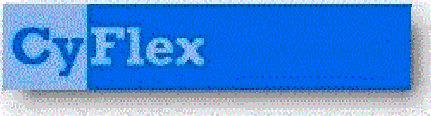


Improvements in Test Rig Performance

Redesign of the product often drives redesign of testing equipment. Substantial improvements in the performance of existing component test rigs can be achieved through the application of new data acquisition and control software and new sensor and IO components. Such upfits invariably result in state-of-the-art performance from older machines at a fraction of the cost of a complete new rig.

Shown here is a Tippelmann Cylinder Head Swirl Test Rig, in CyberMetrix' Laboratory, undergoing refit with CyFlex software. CyberMetrix offers refit services at its Columbus facility or at the customer's location. Complete turn-key services include evaluation of the existing machine

components, specification and installation of new sensors, actuators and computing platforms. CyFlex software is configured to automate the complete testing process and data acquisition process.



Benefits:

1. Leverage existing mechanical and electrical systems while benefiting from the latest measurement, control, simulation and test technology.
2. Reduce capital expense
3. Increase test quality and productivity
4. Centralize data storage
5. Pre-existing configurations for many applications
6. Enterprise licensing allows customers and integrators to "do-it-themselves." – in a supported manner.

An Application of CyFlex

CyFlex is an ideal solution for test rig upfits. CyFlex can be configured to extend the life existing assets; hardware with proven reliability and performance

can be retained. This also minimizes test rig downtime. The result is a test system that is designed for the future but can easily incorporate the present.

The CyFlex experience gained in the test rig upgrade process can be extended to test cell upgrades.

*CyberMetrix specializes in test cell, test stand and portable test solutions that empower the user with choices of features, functionality and pricing. At the core is **CyFlex**, a powerful, efficient and deterministic application suite with a wide range of capabilities.*

Examples of Other Applications:

emissions cart sampling & gaseous analyzer control, engine steady state and transient performance, engine

calibration, engine transient emissions, turbo endurance, crank-angle resolved data collection & analysis, mini-dilution tunnel control & sampling, particulate emissions weighing & filter management, injector shot-to-shot variability, chassis dyno vehicle testing, control algorithm prototyping, turbo mapping & endurance, on-vehicle data logging.

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