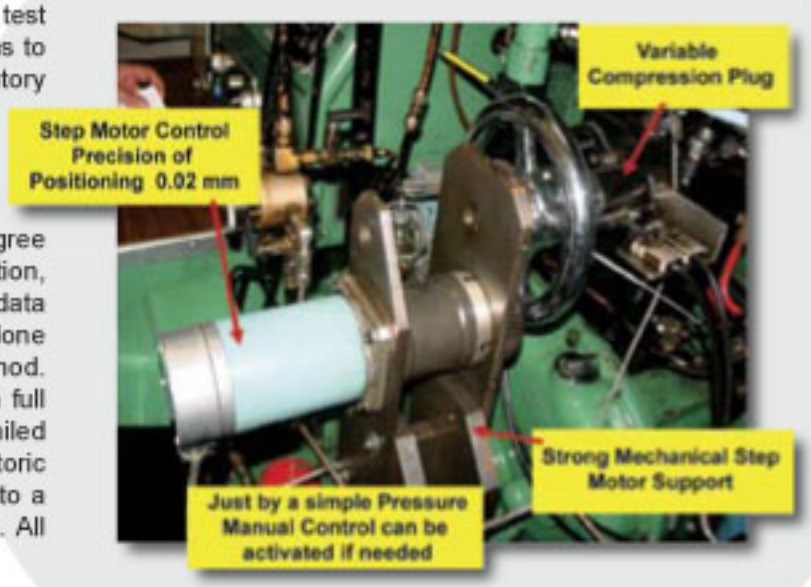
CETANE CFR ENGINE AUTOMATION

- Conforms to ASTM D613 Test Method
- Total Automation
- Automated Hand Wheel Position Control
- Automated Injection Timing and Fuel Flow Control
- Data Capture from Dual Cetane Meter
- Calculation and Correction of ASTM Tables
- ISO Traceable Print Out Report
- Step by Step Guide to the Operator
- On-Line Cetane Engine Operation

For Method:	
ASTM	D613

Upgrading of laboratory and on-line cetane Waukesha CFR test engines is now available that fully and in all details conforms to ASTM D613 test method. Available are two products for laboratory engines and one for on-line engines.

The software automatically records all data (depending on degree of automation) from dual cetane meter, hand wheel position, injection timing, and ignition delay. Data management and data treatment including all calculations and data storage are done by the software in strict accordance with ASTM D613 method. This data capture offers full, simplified ISO traceability with full documentation. Test results precision is improved. Detailed reports are printed out at end of each test or on command. Historic data is easily retrievable. The data is available for transfer to a LIMS for storage or to a spread sheet for further analysis. All calculations for U & T blends are done by the software.



▲ Driver Motor for the Handwheel

► AVAILABLE MODELS

Cetatest Model CD-555X system can now upgrade Waukesha cetane laboratory test engines to capture data from the dual cetane meter and hand wheel position. The Windows XP based proprietary software guides the operator step by step as per ASTM D613 method. These instructions allow even a lesser skilled operator to perform the cetane test as specified by the method.

Cetatest Model CA-745 is the full hands off cetane engine automation system with all the features of the above model, plus automated hand wheel position control, plus injection timing, plus fuel flow control. The hand wheel control is accomplished with a high precision stepper motor mounted to the hand wheel. The positioning precision is 0.02 mm. The hand wheel can still be manually overridden by only a slight finger pressure allowing test continuation in the manual mode.

Cetatest Model CA-970 has all the same features of Model CA-745, above, but is specifically adapted for on-line cetane engine operation.

▲ Main Software Operating Screen

Model CA-970 is controlled from the control room, can be started and stopped remotely, and offers automated certification before blending.