

CURTIS ASSEMBLE & TEST LIMITED

HECKWORTH CLOSE
COLCHESTER BUSINESS PARK
COLCHESTER, ESSEX. CO4 9TB
UNITED KINGDOM



+44 (0)1206 845414



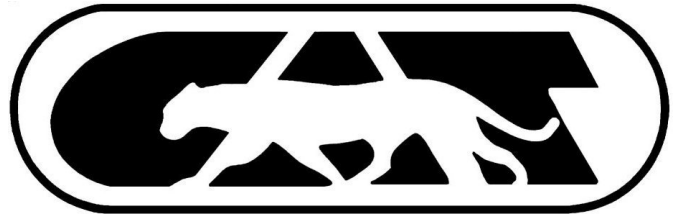
+44 (0)1206 845413



enquiries@curtisassembleandtest.com



www.curtisassembleandtest.com



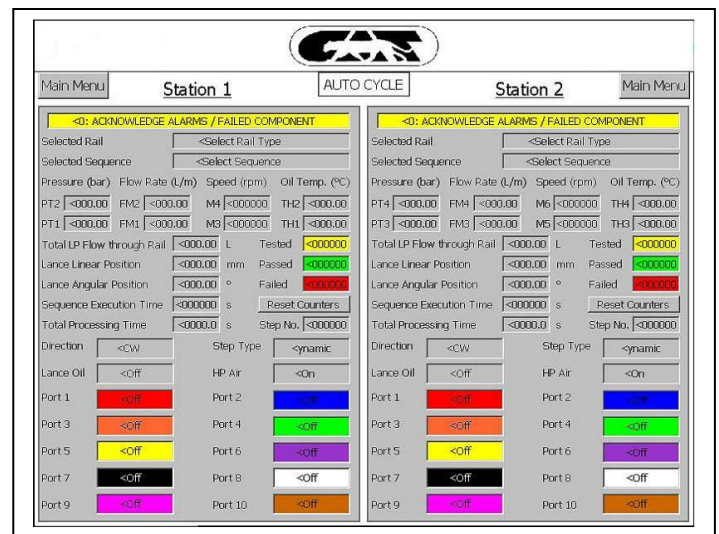
PROGRAMMING AND CONTROL CAPABILITY

Application Areas

Curtis Assemble & Test have in house experience and expertise in the use and application of a wide range of programming tools in areas as diverse as:

- Robots
- PLC's
- Data Acquisition
- Vision Systems
- Microsoft Windows.

Keeping in house expertise enables us to provide after sales support as quickly and efficiently as possible, without having to rely on third parties.

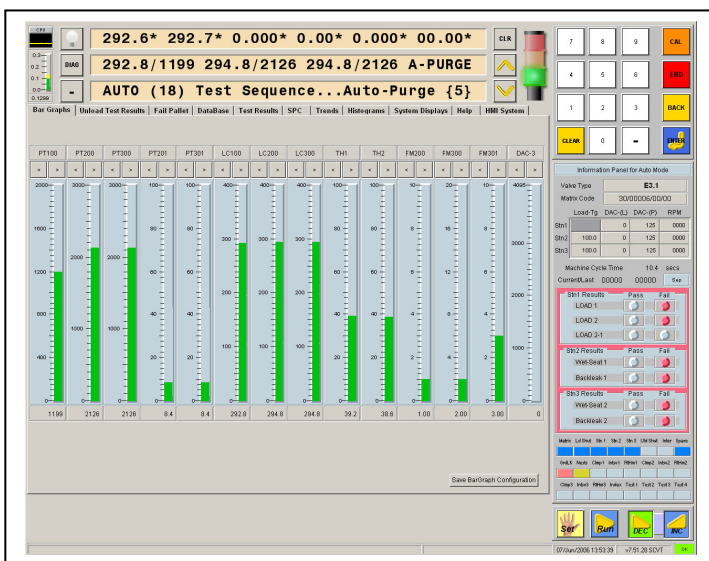


HPF-300 HMI

Development Platforms

We have experience of numerous development platforms including:

- Siemens
- Toshiba
- Allen Bradley
- Hewlett Packard
- National Instruments
- Cognex
- Visual Basic
- Adept and Staubli

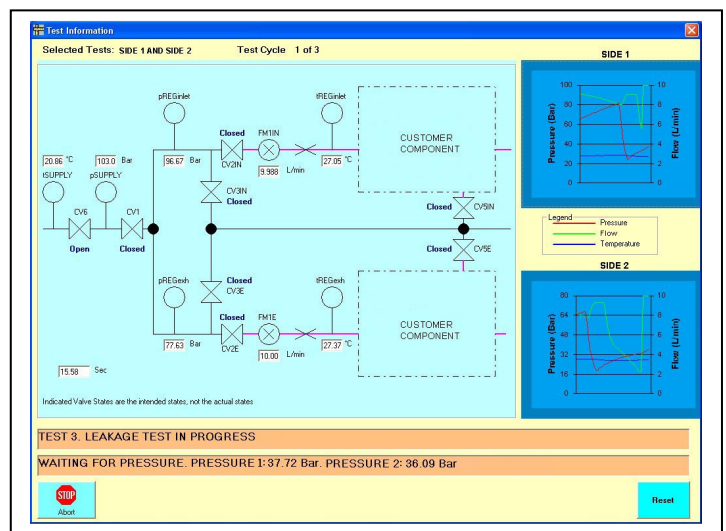


NCV Rig HMI

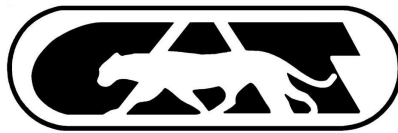
Our knowledge of the capability of software and hardware available from different suppliers enables us to specify equipment that is best suited to meeting the needs of our customers from the point of view of both cost and functionality.

Extended Capability

Where a project calls for very specialised capability not encompassed by our in house expertise, we have close working relationships with specific suppliers with whom we have successfully dealt for a number of years.



Pneumatic Test HMI



Examples

HPF-300.

This is a machine designed to clean Diesel Injection System Rails using high pressure oil and air.

Controlled by a PLC, a flushing sequence is constructed in excel or directly on the machine to clean a component in the most efficient manner. An excel spreadsheet was created with various controls to assist in the correct creation of the sequences. Existing sequences may be copied from the machine for editing offline and then copied back in using a memory card. Run time information about the machine status is fed back to the operator via the HMI screen.

	Software	Hardware
HMI:	Siemens Pro Tool	Siemens MP370 touch interface
M/C Control:	Siemens Step 7	300 Series PLC



NCV Test Machine.

This is a machine designed to carry out multiple dynamic tests on an injection system component.

It is a robot loaded machine picking from, and placing to, pallets of up to 25 components. The robot control interacts with the data acquisition system reacting and responding to test information about the components. All test information is recorded against a unique identification located on the component and stored on a central networked database. Operator feed back is via an HMI designed specifically for this machine using HP Vee. The run time screens are operator selectable giving access to different information while in-sequence SPC analysis is carried out on each test result. Test parameters and new products are edited and created offline using excel and then imported into the machine control.

	Software	Hardware
HMI:	HP Vee	Flat Panel Touch screen
M/C Control:	C-Matic Systems Ltd.	ICS-3000 Bespoke Bus system
Robot:	Staubli or Adept	Staubli or Adept



Pneumatic Test Machines.

These machines are designed to test pneumatic components. The entire control, data acquisition and user interface are written with Visual Basic along with the historical data handling and manipulation features. All aspects of this application were tailored to the exact requirements of the customer and the features provided designed to function exactly as requested. Machine diagnostics in the form of a representation of the system and meaningful operator messages make for intuitive fault finding. The flexibility of Visual Basic means any number of propriety data acquisition products may be used to accomplish the job requirements. The entire control, data acquisition and result manipulation are carried out on a single P.C.

	Software	Hardware
HMI:	Visual Basic	TFT P.C. monitor
M/C Control:	Visual Basic	Industrial P.C.
DAQ:	Visual Basic	Adlink PCI data acquisition cards

