

Vacuum Pump Test Stand

Challenge

John Henry Foster Company was asked for a rotary vane vacuum pump, tested and verified to meet medical industry standards set by end-customer and the medical association. To satisfy the testing criteria, a test stand was built at JHF. Thousands of pumps have been successfully tested on the stand, with the results relayed to the end customer and electronically archived.

Goals

- Run pump through series of steps to verify performance
- Store all results of the test
- Provide Certificate of Conformance for performed test

System Features

- PC controlled I/O system
- Customized software for control and data acquisition
- Database storage of testing parameters & pump results
- On-Demand customized certificate of conformance with appropriate data
- One-touch operation for test

Project Successes

- Has become the standard used by end-customer for vendor supplied testing
- Easy operation
- Upgradeable for future testing changes
- Customized reporting
- Archived testing results
- Printed Certificate of Conformance with data for all vacuum pumps included in shipment

