

Solutions@Mecmesin Solenoid Testing

Specification

Parmeko is a Leicester-based designer and manufacturer of proportional solenoids, on-off solenoids and holding magnets used in mobile and industrial fluid power applications, as well as a range of specialised solenoids manufactured for industries as diverse as mining and subsea.

The company required a testing solution for one particular solenoid product of which it produces 1000 units per week. The management at Parmeko uphold rigorous quality control principles, and as such wanted to test the force exertion and stroke of every single unit leaving the factory, ensuring each performs to the design specifications.

Solution

Mecmesin provided the company with a horizontally mounted MultiTest 2.5-*i* computer-controlled test system, fitted with a 100N Loadcell, and a Personal Computer. Alignment through the central axis of the solenoid and the Loadcell is of critical importance in the successful execution of this test, and so Mecmesin created a custom-engineered rig to correctly position the solenoid.

Parmeko had in the past performed such tests on a manually operated system, and found that the fully automated test cycle of the MultiTest 2.5-*i* made the process far easier for their workers to operate, and eliminated variability of results arising from manually driving the loadcell forward.

A customised Emperor™ test program was preloaded onto the supplied Personal Computer, which the company was easily able to tailor more precisely to their needs as their requirements evolved. Test data is exported to Microsoft Excel® for display and analysis, and test charts are stored in Emperor™.

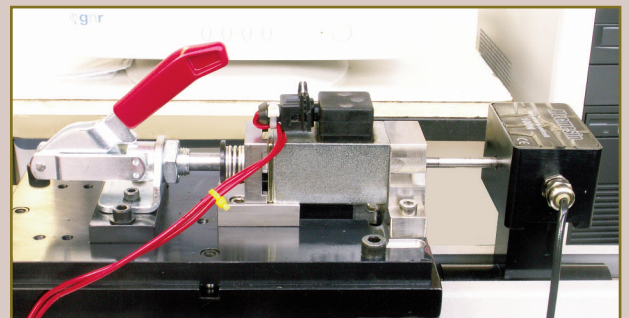
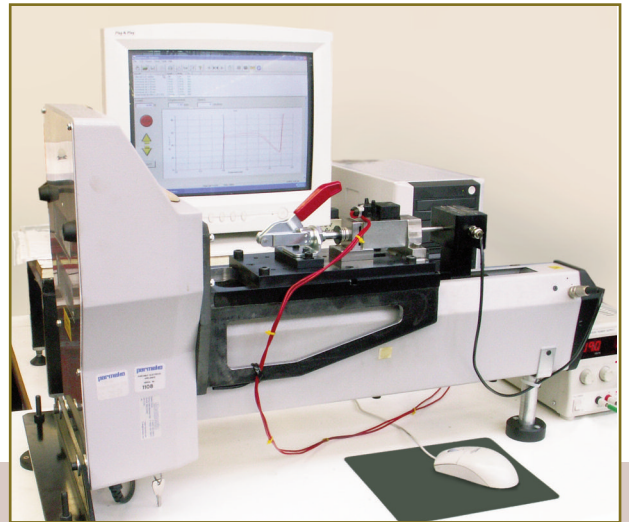
System

- MultiTest 2.5-*i* (mounted horizontally) with a 100N Loadcell

Testimonial

“We had a requirement to perform regular quality control tests on solenoids, to assess force exertion and stroke. We have used Mecmesin products for a number of years, which have proven to be very reliable, and so Mecmesin was the natural choice to fulfil this need.”

Andrew Reece, Parmeko plc



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