SANTON SWITCH TO AUTOMATED TESTING TO SAVE TIME & IMPROVE QUALITY

Slow, manual testing has been switched for a highly automated "all-in-one" method since Santon Switchgear implemented the F2500 Automeg into their production process.

THE PROBLEM

Santon were using a variety of manual methods to test switch connections at their Rotterdam facility, which included writing all measurements by hand for just one of the many test stages.

This was resulting in a slow production rate and an inconsistent quality control process.

It was clear the processes could be improved in several ways; "efficiency, speed, flexibility and reliability" were the key requirements for the project brief.

Read more about the **SOLUTION** from MK Test Systems over the page.

CUSTOMER:	Santon Switchgear
REGION:	EMEA
SOLUTION:	F2500 Automeg
APPLICATION:	OEM switchgears for Industrial, Power & Control, Defence, Rail and Subsea markets
OUTCOME:	Quality improvement for testing; increased production rate
BENEFITS:	Faster all-in-one testing, with quicker error recognition

91%
Reduction in testing time

1hr test reduced to **5min**

MK TEST SYSTEMS

santon
superior switch solutions

"We really value the flexibility of the system and the quality of the results; the F2500 delivers exactly what we asked for."

Zander van der Steege, Project Test Engineer
Santon Switchgear

THE SOLUTION

REDUCED PROCESSES

The F2500 is being used to test the switch connections per position and the voltage of the pot meter is measured and displayed in graph format. Previously, a doorbell test only showed if the contacts are connected; now every contact is measured with continuity resistance and shown on the report.

Voltage measurement no longer needs to be measured with a universal multimeter; it's now an integral subtest. This means the system also generates a voltage graph which can be used to see the voltages at the correct positions.

AUTOMATION FOR SPEED AND ACCURACY

Santon are moving towards a more advanced level of automation with the aim of minimizing human error. The F2500 system could use the EEMS Port to control a motor that then rotates at a constant slow speed. The test system then reads the value of degrees and measures the voltage value to verify if the switch is connected. This generates a protocol graph that is used to verify that all the switches are (dis)connected at the correct degree. This is still a concept and is in development, therefore not yet implemented, but is a view of our future use of the F2500.

The company previously measured using a universal multimeter; a process which took at least 30 minutes to register and write down all the measurements by hand. A process that used to take an hour now takes 5-10 minutes.

"In summary, the F2500 enables quicker all-in one testing, with fast error recognition showing the exact switch connection that caused the tests to fail."

Zander van der Steege, Project Test Engineer, Santon Switchgear

ABOUT MK TEST SYSTEMS

MK Test Systems have been a leading manufacturer and supplier of automatic harness testing systems since 1991. Many of the world's leading aerospace, defence, and rail companies rely on our systems every day of the week to test their products.

We have successfully delivered and implemented over 3000 electrical test systems into 34 countries and have built an enviable reputation for excellence in Automatic Test Equipment (ATE) solutions and the way in which we support our customers.

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