

Case study

Test Plate Install

Innovative problem solving and cost reduction with the Power Focus 6000



The Challenge

1 2 3 4

In a continuous improvement effort, our customer wanted to replace traditional pulse tools in a fastening application that had various component stack ups, in different configurations with different torques for each. If the part was not secured correctly, it could fall off during a final test which could cause damage to a testing machine worth in excess of 1M USD. Additionally, there were costly reworks associated with failed tests for unseated fasteners.



An incorrectly assembled part could damage a machine worth over 1M USD.

The Solution

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We recommended the Power Focus 6000 with Tensor STR tool, using our TurboTight® technology. Unlike traditional pulse tools, the TurboTight® strategy does not cause the part to rotate, removing the need for a locking fixture and reducing process time. In addition, the tool exerts the precise torque required for each component configuration, ensuring that the part is correctly attached. By interlocking with the station's PLC, the part is not released until all fastening has been correctly completed.



The Power Focus 6000 removed the need for a locking fixture, reducing process time.

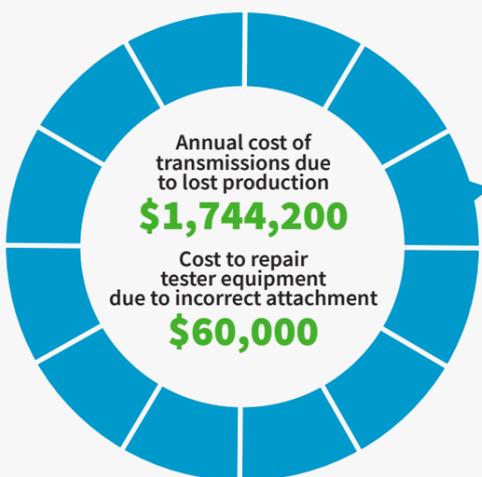
The Business Justification

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The new solution catches cross-threads, saving on scrap and costly reworks. As significantly, each incidence of tester failure led to long downtime, with major productivity implications. Safety is also increased, with lower vibrations and no need for a reaction device, increasing operator comfort.



The payback period for the solution was just 6 days.



Payback period for solution **6 days**

The Validation

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Since installation in November 2017, all stations have been running well, with the customer being extremely satisfied with the solution. With no issues reported so far, annual savings are predicted to be substantial.



Annual savings will be substantial.