

Case study

Cell production

Innovative problem solving and cost reduction with the Power Focus 6000



The Challenge

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Our customer, a leading producer of electric motors and generators came to us with two problems. Tightening in their cell production comprised two operations using separate tools, in this case an impact wrench and a click wrench. This meant long cycle times and subsequent quality issues. Since the wrenches had no way of relaying data regarding torque or angle, errors such as cross-threading and incorrect tightness were occurring, resulting in expensive warranty claims.



Non-reporting tools were leading to expensive warranty claims.

The Solution

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We recommended the Power Focus 6000 in combination with the TBP 55 and TBP 35 battery pulse tools. The low torque requirements of just 15Nm meant that one-handed tools could be safely and comfortably deployed. With most of the reaction force eliminated and the lowest vibration on the market, operator comfort was greatly enhanced, while TorqueBoost® technology allowed for rapid torque build-up and increased productivity. In addition, the Power Focus 6000's data reporting eliminated cross-threading and tightness mistakes, saving costly warranty claims.



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

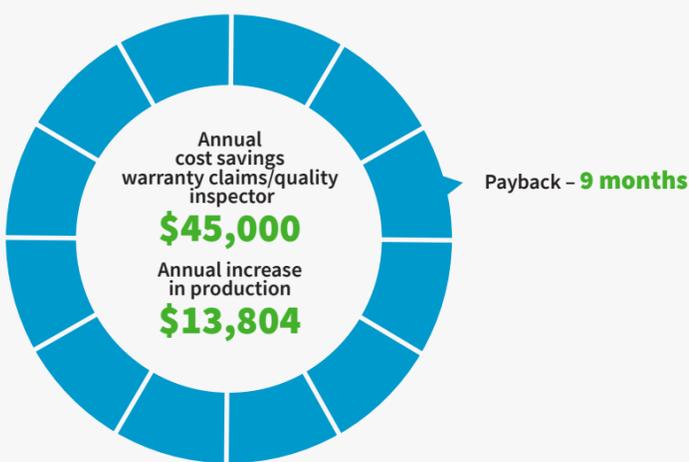
The Business Justification

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The traditional solution of impact and click wrench was slow, clumsy and ultimately expensive. By deploying the Power Focus 6000 and TBP solution, there were significant increases in productivity and substantial savings:



The Power Focus 6000's reporting tools led to significant added value.



In addition, the provision of a 'virtual station' allowed 1 Power Focus 6000 to be used with 2 different tools, reducing outlay and allowing for future flexibility and expansion.

The Validation

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Thanks to the Power Focus 6000, cell production now enjoys full traceability, with quality control no longer solely reliant upon the operator's judgement. As a result, there have been no warranty claims since the solution was installed, saving the company money and enhancing their reputation. The use of low reaction tools has also had a beneficial effect on ergonomics, enhancing operator comfort – operators commented that the TBP tools were significantly quieter than the traditional tools which had been extremely noisy.



Enhanced ergonomics have greatly improved operator comfort and safety.