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NEWS RELEASE

Innomech develops automated test system for Owen Mumford auto-injectors

GB Innomech (Innomech) has designed and developed a new fully automated test system to help Owen Mumford, a global leader in medical device design and manufacturing, to carry out more efficient batch testing as a final verification of quality for one of its leading auto-injector products. The new system will help significantly speed up product release for shipment and is more than 5x faster than a previously semi-automated process that needed five different pieces of test equipment, each with its own specially-trained operator.

Innomech has integrated all five tests into one easy-to-use system with a total cycle time of less than one minute. The automated system requires just one operator, eliminates the need for any manual handling of auto-injectors between different tests and ensures all test results are fully recorded into a secure electronic record to comply with FDA 21 CFR part 11 regulations for medical device manufacturing.

“Innomech has designed a highly effective piece of automation to help Owen Mumford further improve test efficiency and process consistency, as well as enabling us to scale up production to meet growing demand for this particular drug delivery device. The Innomech system has also been designed to increase operator health and safety by eliminating previously repetitive manual tasks and the risks in handling fired pens,” said Steve Miles, manager of test methods & validation at Owen Mumford.

The operator starts the test cycle by inserting a complete auto-injector pre-loaded with its cartridge of active drug into the Innomech machine. The system then measures the forces required to remove the auto-injector’s safety cap and to fire the trigger, the dose time, volume of dose delivered and the distance the needle protrudes from the body of the device. The cycle ends with the fired device being automatically ejected from the machine into a sharps bin to protect the operator from the risk of any accidental scratches or puncture wounds.

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If an auto-injector fails one of the five tests then the machine retains it, a red warning light is displayed and the operator receives an on-screen explanation allowing them to remove the product and to take further action as required.

Innomech has developed several systems for Owen Mumford over a number of years helping to optimise the assembly and test of the manufacturer's own branded products, as well as customised devices that it manufactures for leading pharmaceutical companies.

Notes to editors:

About GB Innomech

GB Innomech (Innomech) specialises in automating highly complex and labour-intensive manufacturing processes to maximise outputs, improve product quality and boost business performance. The company works with major international manufacturers in sectors such as pharmaceuticals, medical devices and environmental, as well as earlier-stage businesses looking to bring breakthrough technologies or products to market.

Innomech has a growing market reputation for solving the toughest of manufacturing problems by the early identification and management of risk, often cross-fertilising technologies and techniques from a range of industry sectors. All projects from initial feasibility studies through to building production-scale machines are conducted to high specification pharmaceutical industry standards and are designed to comply with GAMP5, FDA and other international standards.

The company was founded in 1990, is based at The Innovation Centre in Witchford, north of Cambridge and was awarded The Queen's Award for Enterprise 2009 to recognise its sustained growth in international markets.

For additional information about GB Innomech please visit or contact:

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- Press enquiries to Simon McKay on +44 (0)1353 741075 or email to simonmckay@innomech.co.uk
- All other enquiries to Tim Mead at Innomech on +44 (0)1353 667394

About Owen Mumford

Owen Mumford is a major medical device manufacturer that develops pioneering medical devices for its own Owen Mumford brand and custom device solutions for the world's major pharmaceutical and diagnostic companies. Owen Mumford's goal is to improve quality of life, encourage adherence to treatment and reduce healthcare costs. Making a world of difference, to a world of people.

With a history of world firsts in device solutions, Owen Mumford offers proven design, development and delivery services from a broad base of proven self-injection and blood sampling platform devices and intellectual property.

In business for over 60 years, Owen Mumford remains privately owned with a focus on long-term investment to deliver sustainable business growth. With a strong internal research and development capability, Owen Mumford's goal is to develop solutions that address today's healthcare demands. Through advanced research involving end-users and health care professionals, and extensive design and manufacturing capabilities, Owen Mumford produces class-leading medical devices that are used by a global audience - exporting over 85% of its products to more than 60 countries worldwide.

Selected as one of The World Economic Forum's Global Growth Companies in 2014, Owen Mumford is a trusted partner to many of the world's biggest medical device diagnostic and pharmaceutical companies and works with international organisations to support customers at a local level and provide consistent and dedicated support.

For further information please visit <http://www.owenmumford.com/>, follow Owen Mumford on [Facebook](#), [Twitter](#) and [LinkedIn](#) or contact:

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Photographs

Print quality JPEGs of the images below have been attached to the original email or are available on request from Simon McKay (details above). Alternative images can be supplied.



- 1 GB Innomech has developed a fully automated test system for Owen Mumford that is 5x faster than the company's previously semi-automated process. The new system provides a final verification of quality for one of Owen Mumford's leading auto-injector devices.
Credit: GB Innomech



- 2 Auto-injectors are designed for maximum ease-of-use and to help patients or non-medical staff to administer a single dose of a particular (typically life-saving) drug.
Credit: Owen Mumford



- 3 Owen Mumford has designed and developed a range of auto-injector devices such as the Autoject2 products shown here. Autoject2 has been designed to make it easier for patients of all ages to administer syringe-based medication.
Credit: Owen Mumford

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