

## Press Release

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# **From component supplier to system supplier in the automation process**

**Basingstoke, U. K., May 3, 2021 - Aerotech, manufacturer of high-performance motion control and positioning systems, is increasingly becoming a system supplier, providing customers with holistic support for their high-precision and industry-specific automation processes. Thus, Aerotech not only supplies suitable components for particularly difficult operating conditions and mission-critical application areas, but is also increasingly acting as a builder of automation systems for industry-specific applications. Customers can choose between a component-only solution, a customised motion subsystem, or a fully integrated system.**

Since 1970, Aerotech has provided standard product solutions such as motors, drives, controls and positioning stages. Custom-designed motion subsystems include positioning systems on granite structures with underframes and vibration isolation, as well as external measurement systems. The integrated systems are almost turnkey machines developed together with the customers to perform an automated process. These not only contain Aerotech precision components for motion control, but also complete automation integration for e.g. parts handling, process instruments, safety elements and customer-specific software.

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“We have been working closely with customers in a wide range of industries over the past few years and have also been moving further and further into process automation”, points out Simon Smith, European Director at Aerotech. “As a builder of automation systems, we support manufacturing companies in optimally automating their process with the precision motion components we produce.” The manufacturer also intends to support companies that are currently setting up, expanding or modernizing production. “Particularly in the semiconductor and electronics sectors, many companies have neither the staff nor the vertical integration to develop mechanics and control systems in parallel”, Simon Smith continued. In addition, the solutions are becoming smarter and more complex, so that a single company can no longer master all the implementation steps. As a result, the supplier’s know-how is becoming increasingly important. “And this is where our real work as a builder of automation systems begins: We offer detailed integration consulting, at the end of which there is either the delivery of individual components, a subsystem that can be seamlessly integrated, or even a complete automation solution. Application training, education and services further round out our service portfolio.”

### **From electronics manufacturing to medical device manufacturing to additive manufacturing**

Aerotech has a high level of vertical integration, particularly with regard to drive components and control elements. On the mechanical side, Aerotech also supplies partially integrated systems, which the customer only has to complete. If, for example, an adjustment system on granite is required for the machine, Aerotech prepares this for the customer individually. The user can then integrate further additional applications such as laser beam guidance or sensor technology

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as required. As a single point of contact for surface metrology, Aerotech ensures that measurement systems are integrated with positioning systems. With measuring systems we supplies additional customer-specific equipment if, for example, a user needs to measure large-area samples that are beyond the scope of the standard equipment. "We have grown with our customers over the years and gained application knowledge from many industries. Accordingly, we can now recommend the optimum components for the right use in the application", states Simon Smith.

### **((Figures))**

Figure1: Simon Smith



((BU)) Simon Smith, European Director Aerotech: "We have been working closely with customers in a wide range of industries over the past few years and have also been moving further and further into process automation. As a builder of automation systems, we support manufacturing companies in optimally automating their process recipe with the precision motion components we produce."

Download link: [http://www.pr-x.de/fileadmin/download/pictures/Aerotech/Simon\\_Smith\\_Direktor\\_Europa.jpg](http://www.pr-x.de/fileadmin/download/pictures/Aerotech/Simon_Smith_Direktor_Europa.jpg)

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Figure2: Aerotech solution for Keyence VR5000 (Source: Aerotech)  
(BU) Integrating Keyence with Aerotech positioning systems for even greater travel: For this purpose, the experts at Aerotech have mounted a Z-axis with up to 300 mm of adjustment travel on a stable granite portal. The measuring head is supported by an adapter angle. A cross stage is mounted on a granite base for component adjustment.

Download

link:

[http://pr-x.de/fileadmin/download/pictures/Aerotech/Aerotech\\_Keyence\\_VR5000.jpg](http://pr-x.de/fileadmin/download/pictures/Aerotech/Aerotech_Keyence_VR5000.jpg)

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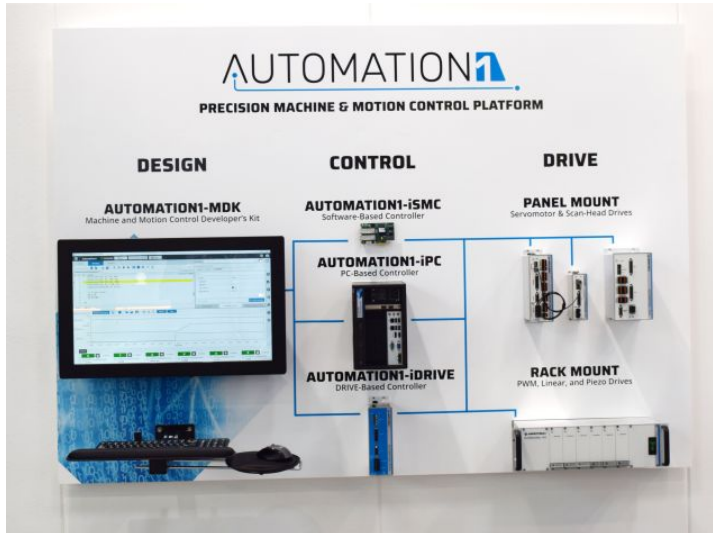


Figure3: Automation1 at a glance

((BU)) Control platform with integration capabilities: With the flexible Automation1 control platform, servo and stepper motors, galvo scan heads, piezoelectric actuators and various other devices can be directly controlled and integrated.

Download link:

[http://www.pr-x.de/fileadmin/download/pictures/Aerotech/Automation1\\_Board.JPG](http://www.pr-x.de/fileadmin/download/pictures/Aerotech/Automation1_Board.JPG)

### ***Aerotech – Dedicated to the Science of Motion***

Aerotech Inc., based in Pittsburgh, USA, is a privately held, family-owned company founded in 1970 by Stephen J. Botos with the vision of advancing the science of motion control and positioning systems for customers in industry, science and research. As a family business, the owners continue to place great value on open and trusting relationships with customers, business partners and employees. In Germany, the mid-sized company is represented by its own subsidiary, Aerotech GmbH, based in Fürth. In addition to sales and service activities, the Fürth facility handles customised assembly of positioning systems for the European market. The company's innovative and high-precision motion solutions meet all critical requirements necessary for today's demanding applications. They are used wherever high throughput is required – including medical and life science applications, semiconductor and flat screen production, photonics, automotive, data storage, laser processing, aerospace and electronics manufacturing, as well as inspection, testing and assembly.

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With advanced analysis and diagnostic capabilities, Aerotech provides world-class technical support and service. If a standard product is not suitable for an individual application, Aerotech can supply special motion components and systems based on its many years of expertise and experience. Manufacturing capacity for customer-specific applications is supplemented by experience in supplying systems for vacuum and clean room operation.

Aerotech has full-service subsidiaries in Germany (Fürth), United Kingdom (Ramsdell), China (Shanghai) and Taiwan (Taipei). Aerotech currently employs around 500 people worldwide. <http://uk.aerotech.com>

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