

# Ubisense and Bosch Rexroth launch tool location and control solution for aerospace assembly lines

CAMBRIDGE, UNITED KINGDOM, July 1, 2016 /EINPresswire.com/ -- [Ubisense](#) Group plc (AIM: UBI), a leader in enterprise location intelligence solutions, and Bosch Rexroth, specialists in drive and control technologies, have joined forces to launch a new solution at Aerospace Valley Congress.

Developed specifically for Aerospace Assembly Lines, the solution combines [Bosch Rexroth's Nexo Cordless Nutrunner](#) and [Ubisense's Smart Factory](#) solutions to offer real-time tracking of tools (Tool Location) and tightening operations (Tool Control).

Ubisense's readers detect the precise location of tagged Bosch Rexroth tools on the assembly lines at all times, avoiding tools being lost or misplaced with the associated disruption and need to repurchase. The solution also saves time spent on searching for tools, re-compiling toolkits and means that less time is needed to book-in and book-out tools. Ubisense's technology provides accurate data in real-time that improves and standardises reporting, plus enables the early identification of activity, such as desynchronised delivery, and the impact of re-ranking.

Christian Raux, Southern Europe Director at Ubisense, said: "For the past seven years, we've worked closely with Airbus using Smart Factory Real-Time Location Systems (RTLS) to streamline and automate industrial processes as a key part of its digitalization strategy. This has given us an in-depth understanding of the challenges facing the sector and how our solutions can deliver benefits across the assembly line.

"It's great to be working with Bosch Rexroth. Together we're offering the aerospace sector one of the best solutions available to help deliver a lean manufacturing process; reducing costs, improving quality, optimizing processes and enabling the flexibility needed for mass customisation."

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## Ubisense's Smart Factory

Smart Factory gathers location data through its best-in-class Real-Time Location System (RTLS), which includes hardware tags and sensors that connect via Ultra-wideband radio signals to pinpoint the exact location and identity of assets in the manufacturing process. It combines this data with information from existing plant systems and devices to deliver a virtual interpretation of exactly what's going on in the factory. Used by more than half of the world's largest automobile manufacturers, Smart Factory intelligence is instantly connected to the relevant people and tools – providing insights and control that drive real improvements to the bottom line.

## Bosch Rexroth's Nexo Cordless Nutrunners

Rexroth Nexo is the solution for safety critical applications according to VDI/VDE 2862 and ensures maximum freedom in use at a consistently high level of process reliability. The cordless nutrunner Nexo has the entire controller integrated in the nutrunner, making many Industry 4.0 applications possible for the first time. The integrated control systems enable the tool to be connected directly to

the higher-level systems without requiring additional hardware in the premises network. The local control monitors torque and rotation angle of each tightening joint and sends the results wirelessly to a receiving station. When radio shadows occur, it buffers the data and transmits it as soon as a network connection has been re-established. The large graphic display on the nutrunner consistently, directly and clearly displays the quality of the tightening results. Further, a version with additional integrated scanner for work piece identification is also available and ensures the correct allocation of nutrunner data. The Nexo cordless nutrunner covers the power spectrum to 65 Nm and was tested by Rexroth under full load conditions in endurance tests for up to 500,000 maintenance-free connections.

#### About Ubisense

Ubisense (AIM: UBI), a global leader in enterprise location intelligence solutions, helps manufacturing, communications and utility companies improve operational efficiency and boost profitability. Ubisense location intelligence systems bring clarity to complexity, enabling customers to revolutionize their operational effectiveness in a measurable way. Founded in 2002, Ubisense is headquartered in Cambridge, England, with operations in North America, France, Germany and Japan. For more information visit: [www.ubisense.net](http://www.ubisense.net)

Becky Lamont  
Ubisense  
1223781004  
[email us here](#)

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