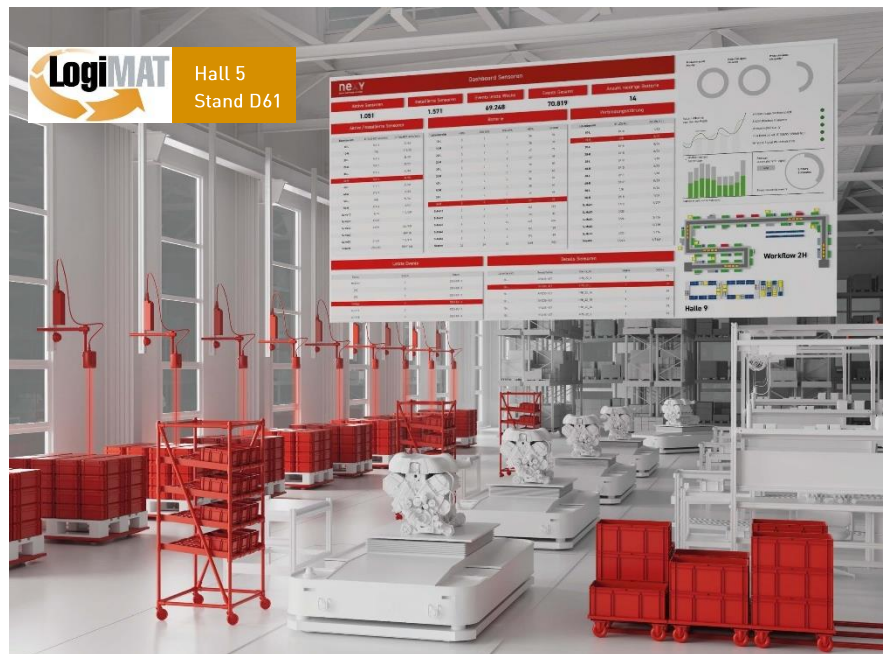


steute expands material requisition system

Assembly stock tracked to the last small part

With wireless-based material requisition systems, operators can maintain an overview of all articles within their production, even those which are not inventory-managed. At the LogiMAT, steute is showing the latest generation of its nexy system.

Uninterrupted tracking of stock: this prerequisite for smooth assembly processes is already fulfilled in large and well-organised companies, e.g. in the automotive supply or electrical industries – but for core components. For smaller components, such as bulk goods like fixtures and fittings, the situation is different. They are just as necessary as the inventory-managed large components. But demand and consumption are not planned by the piece or unit, often not even by location per assembly point, but e.g. for a complete assembly line. Replenishments are requested, for example, via Kanban cards, which in practice leads to the same avoidable problems time and time again.



The nexy wireless network supports stock management and monitoring.

Balanced material requisition

With its automated material requisition system nexy, steute has a product which can eliminate these problems completely. At the LogiMAT 2024, a new nexy generation is being presented, essentially comprising three elements: wireless sensors in the field, a wireless network for communication, and a Sensor Bridge as a link to the company IT. With these three elements, even components which

are not inventory-managed can be organised transparently.

How it works

Various sensors localise the stock, which is usually transported in boxes. When a box is removed from a flow rack, which could be in a cascading system, sensors detect the occupancy of individual positions within that rack. Long-distance laser sensors maintain a constant overview of consignment areas and material stations and can, for example, also monitor fill levels in LLC or the levels of palletized goods or the presence of pallets. The next prerequisite for stock tracking is a communication network with integrated wireless sensors. Here the wireless technology uses the international SDR frequency band. In each case, the radio module is integrated in the sensor or switch, and conventional sensors can also be included using separate modules. The

third element is the Sensor Bridge, linking the system to other IT systems. At the hardware level, the Sensor Bridge is an industrial PC. Alternatively, the software can be integrated via a Docker image.

Monitored health check

The wireless network generation being shown at the LogiMAT incorporates revised sensor-actor communication at field level. Also new is a Predictive Maintenance Dashboard. This monitor spatially visualises the complete system, in the sense of a system health check. The monitor also displays the status of individual sensors in order to pre-empt any disturbances, in turn helping to prevent downtimes. In all cases, users can set up a wireless-based individual material requisition system to ensure an uninterrupted flow of data and information in intralogistics and production.

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Images: steute Technologies GmbH & Co. KG