



**International Trade Show for
Intralogistics Solutions and Process Management
March 19–21, 2024 | Messe Stuttgart**

euroexpo

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Press Release

LogiMAT in Stuttgart **Sustainability is Good Business**

Munich, January 23, 2024—Exhibitors at LogiMAT 2024 are presenting a wide range of innovations focused on sustainability, a major global trend and one of the themes of this year’s International Trade Show for Intralogistics Solutions and Process Management. The lineup spans everything from new industrial trucks with lithium-ion technology to packaging innovations, reusable AIDC solutions, and new automated storage system components with energy recovery. The accompanying program also features two Expert Forums with information on reuse, recycling, and energy conservation.

Sustainability in logistics doesn’t just begin with efforts to reduce emissions, measure the carbon footprint of transports, and plan smart supply chains. It begins in production and intralogistics, which offer various options for optimizing and reducing the consumption of energy and resources. Using resources efficiently translates into a competitive edge amid rising prices for energy and raw materials. So it’s not surprising that two-thirds of respondents in a recent survey by the German Logistics Association (BVL) see sustainability as an opportunity to improve their competitive position. The focus of sustainability projects includes retrofitting buildings for greater energy efficiency, sustainable packaging solutions, and alternative powertrains. That’s why sustainability is one of the three areas at the center of this year’s LogiMAT with its theme “SHAPING CHANGE TOGETHER: Sustainability – AI – Ergonomics.”

The EU’s Circular Economy Action Plan identifies three areas of focus for greater sustainability: reducing the consumption of energy and resources, extending the useful life of products and components, and reusing materials. The innovations that exhibitors will present at LogiMAT 2024, filling all ten halls of the Messe Stuttgart convention center from March 19 to 21, focus on all three of these approaches. “The subject of sustainability in production, warehousing, and distribution has become a key decision-making factor across the entire supply chain, all the way to the end consumer,” notes

LogiMAT Exhibition Director Michael Ruchty from event organizer EUROEXPO Messe- und Kongress-GmbH in Munich. “That’s why many businesses seek to make their intralogistics more sustainable and climate neutral. Today’s innovations and state-of-the-art solutions on display at LogiMAT 2024 offer an overview of current options and lots of inspiration to help businesses find the right system for energy and resource efficiency, recycling and reuse, and scalability and flexibility.”

Energy efficiency through lithium-ion technology

The theme of sustainability is already explicitly present in the Expert Forums of LogiMAT’s accompanying program. Jörg Pirron, Chair of the Intralogistics Network in Baden-Württemberg and Managing Director of PROTEMA Management Consulting, explores “Opportunities for More Sustainability in Intralogistics” in the East Entrance Atrium on the third day of the event, illustrating how environmental protection, efficiency, and cost savings can go hand in hand.

Several industrial truck manufacturers in Halls 9 and 10 will demonstrate how the extended use of products and components can achieve sustainability and conserve resources with new electric counterbalance and reach forklift trucks as well as high- and low-lift pallet trucks. All these models are powered by lithium-ion batteries that achieve an efficiency of over 95 percent—a 30+ percent improvement over conventional lead-acid batteries. When used with modern charging equipment, the result is 16 percent less energy use overall and lower carbon emissions. Lithium-ion battery recycling is also in the spotlight in Hall 10. Visitors coming in through the East Entrance can start off with a demonstration of software featuring a newly integrated sustainability assessment. This offers users insights into the environmental impact of their recycling management and the potential for optimization, the first step toward compliance with the future requirements of the EU’s Packaging and Packaging Waste Regulation (PPWR).

Less waste and plastic, and more recycling, reuse, and recovery: That’s the agenda for meeting sustainability goals by conserving energy and resources and using more alternative and environmentally friendly materials. Nearly every exhibitor group at LogiMAT is presenting proven solutions and stimulating innovations to address this agenda. Manufacturers in the packaging industry in Hall 4 are introducing innovative hot-melt adhesive solutions for custom cartons and envelopes that boost the productivity of on-demand packaging technologies. The adhesives are 100 percent compatible with the guidelines of the European Paper Recycling Council. Visitors can also preview several automated packaging systems, where the trend is toward low-resource, custom packaging for a wide spectrum of products. The custom solutions reduce manual worksteps, eliminate the need for filler materials, and lower material and transport costs. Linerless labels, which eliminate the paper waste associated with conventional labels, are also being presented in response to the growing environmental requirements in logistics and production.

Recycling and reuse

The equipment makers and systems integrators in Halls 1, 3, 5, and 7 are exhibiting more options for cutting energy use and material consumption. Hall 5 will feature new energy-saving motorized rollers for conventional pneumatic accumulation roller

conveyor technology, plus new storage and retrieval machines with integrated energy recovery systems. Several exhibitors are also presenting their latest products in the field of AutoStore technology. When it comes to sustainability, AutoStore systems offer a 60–70 percent better use of space and, at an average of 100 watts per robot, the lowest energy consumption among all automatic small parts storage solutions. What's more, their components can also be easily removed and reused.

Reusability is also the focus of another Expert Forum, this one moderated by Dr. Johannes Fottner, Full Professor for Logistics Engineering at the Technical University of Munich (TUM), in the East Entrance Atrium on the first day of LogiMAT. "Circular Logistics—Disassembly as a Foundation for Sustainability" is the title, and besides recycling, the focus is primarily on the reuse and refurbishment of end-of-life products.

LogiMAT will showcase a wide range of innovations to meet the challenges of conserving resources through reuse, especially in the field of packaging solutions. In Hall 3, the focus will be on solutions for efficiently compacting recyclable materials such as cardboard and foils. In Hall 4, visitors can explore an exciting alternative to plastic air cushions, polystyrene packing peanuts, and crumpled paper: padded cushions made from cardboard waste collected free of charge by the manufacturer, then shredded. Among the AIDC industry specialists in Hall 2, the exhibits will include an ePaper solution that converts PDS or IGP print data to ePaper, replacing the print process in traditional label printing. The ePaper can be reused after each process. Flexible new safety barriers on display in Hall 9 promise better safety and less damage in warehouse systems. The modular solution offers combinable barriers in a stable polymer construction that can be reused as conditions vary.

Saving energy by streamlining operations

Every industry segment features products that promote sustainability and the efficient use of resources in warehousing. The spectrum ranges from smart positioning and localization systems to new low-energy industrial and hangar gates. Visitors can also find applications for high-performance warehouse management software that uses AI algorithms to automatically balance multiple warehouse KPIs based on configurable parameters and optimize the use of resources. Building insulation and solar energy solutions are augmented by related energy-saving measures such as LED lighting solutions and controllers that use timers and motion detectors to optimize energy use. Modern lighting technology alone has the potential to significantly reduce energy consumption. Operational improvements also have a role to play in energy conservation: route optimization, ABC analyses for inventory organization, multi-order picking, and driver training. LogiMAT exhibitors offer various systems and features to implement these soft fixes.

"Sustainable intralogistics quite naturally has technology at its core," concludes Exhibition Director Michael Ruchty. "Looking at the exhibits on display at LogiMAT 2024 through the lens of sustainability reveals the tremendous diversity of solutions the intralogistics industry has on offer for saving energy and conserving resources. It's also proof that energy-efficient technologies can serve economic and ecological objectives in equal measure. Even small, high-tech adaptations can yield significant energy savings without a lot of upheaval or limitations. These are steps that every distribution center can and should take."

Organized by: EUROEXPO Messe- und Kongress-GmbH
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Munich, January 23, 2024—This text may be reprinted free of charge, but please send a copy to EUROEXPO Messe- und Kongress-GmbH, Press and Public Relations Department, 80912 Munich.

About LogiMAT

LogiMAT, the International Trade Show for Intralogistics Solutions and Process Management, will take place at the Messe Stuttgart convention center, directly adjacent to Stuttgart International Airport, from March 19 to 21, 2023. LogiMAT, organized by EUROEXPO Messe- und Kongress-GmbH, ranks as the world's largest trade show for intralogistics solutions. It offers a complete market overview of everything driving the intralogistics industry, from procurement to production to shipping. International exhibitors showcase innovative technologies, products, systems, and solutions for streamlining operations, optimizing processes, and cutting costs in a company's internal logistics. Beyond the exhibitor booths, visitors can also experience a different program of presentations each day covering a wide range of topics.

LogiMAT also has a presence in various international markets. Upcoming events:

LogiMAT India, February 28 to March 1, 2024, IEML, Delhi NCR, India

LogiMAT China, May 8–10, 2024, SZCEC, Shenzhen, China

LogiMAT Southeast Asia, October 16–18, 2024, IMPACT, Bangkok, Thailand

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