

# JUNGHEINRICH

## Committed to Delivering Sustainable Material Handling Solutions

Jungheinrich's Asia-Pacific (APAC) headquarters, located in Singapore, spearheads operations across the region with seven direct sales companies and over fourteen partner companies. In the APAC region, Jungheinrich offers an extensive range of electric material handling equipment, including pallet trucks, stackers, order pickers, reach trucks, forklifts, and very narrow aisle (VNA) trucks. The company also provides advanced racking systems and intralogistics solutions such as Automated Guided Vehicles (AGVs).

Jungheinrich's solutions in the APAC region are supported by a robust Key Account and After Sales setup, complemented by a regional training and spare parts centre in Singapore, established in 2001. The company has identified six key focus areas for sustainable action: Climate Neutrality, Eco-Efficiency and Circular Economy, Sustainable Business Models, Products and Services, Employees and Societies, and Governance. These initiatives underscore Jungheinrich's dedication to sustainability and responsible corporate practices.

### AN AMBITIOUS ROADMAP TO SUSTAINABILITY AND CLIMATE NEUTRALITY

Jungheinrich has set ambitious targets to contribute to climate neutrality. By 2030, the company aims to achieve net zero greenhouse gas emissions for Scope 1 and 2, and by 2050, net zero emissions across Scope 1, 2, and 3, in accordance with the Science Based Targets initiative (SBTi).

To reduce resource and energy consumption, Jungheinrich targets 0% landfill waste worldwide by 2030 through internal processes and established recycling systems. The company is committed to providing intralogistics with sustainable products and solutions, aiming to boost revenue with sustainable products in line with the EU Taxonomy Regulation.

Promoting the health and safety of employees is another key focus, with a target to improve the lost time injury rate (LTIR) to 12.5 by 2025. Jungheinrich also ensures transparent and sustainable procurement, aiming for 80% of global relevant purchasing volume to be "sustainable spend" by 2025.

Jungheinrich strives to achieve top ratings as proof of its sustainability performance, with key performance indicators including being awarded in the world's top 1% of sustainable companies by EcoVadis for three consecutive years, along with recognition from CDP, MSCI ESG Ratings, and ISS ESG, aligned with its comprehensive sustainability targets.

### SUSTAINABLE SOLUTIONS: ZERO EMISSION VEHICLES AND COMPONENTS

Jungheinrich's POWERLINE truck series sets a new standard in innovation and sustainability with its integrated lithium-ion battery and advanced ergonomic design. POWERLINE vehicles maintain a CO<sub>2</sub> e-neutral footprint up to the point of delivery, thanks to production powered by renewable energy sources and ongoing efforts to reduce energy consumption during manufacturing. Unavoidable emissions are offset by investing in high-quality climate protection projects.

In Kuwait, Jungheinrich's zero-emission components have facilitated the construction of the world's first automated vertical farm. In the APAC region, notable projects include the implementation of a fully automated warehouse at a third-party logistics company in Singapore, showcasing Jungheinrich's commitment to advanced, sustainable intralogistics solutions.

### LITHIUM-ION TECHNOLOGY

With over 70 years of expertise in electric mobility and a decade in lithium-ion technology, Jungheinrich stands at the forefront of sustainable innovation, being the first manufacturer to integrate lithium-ion technology into forklift trucks. Their products equipped with lithium-ion technology emit around 20% less CO<sub>2</sub>e compared to lead-acid batteries, offer a longer lifespan, and can be refurbished or reused in a cradle-to-cradle approach. By 2025, 50% of Jungheinrich trucks delivered to customers will be fitted with lithium-ion batteries.





### Transforming High Emission Industries Through Sustainable Intralogistics

Sustainable intralogistics plays a crucial role in transforming high-emission industries. Globally, over 35 billion tonnes of CO<sub>2</sub>e are emitted annually (Global Carbon Project 2021), with intralogistics responsible for approximately 4% of these emissions (Fraunhofer 2022). Although this is a relatively small proportion, intralogistics products and solutions significantly impact key high-emission sectors such as transport, logistics, manufacturing, trade, and agriculture. For instance, the transport sector alone accounts for 20% of global emissions (EDGAR/JRC 2021).

Jungheinrich's lithium-ion batteries consume approximately 20% less energy in daily use compared to lead-acid batteries. When powered by green electricity, CO<sub>2</sub>e emissions from lithium-ion trucks can approach zero during the use phase. Additionally, using a refurbished truck can save around 80% CO<sub>2</sub>e compared to a new one. To

support this, Jungheinrich has established a dedicated refurbishment hub in Bangkok, Thailand, which has refurbished over 1,000 forklift trucks in APAC since its opening.

### PROACTIVE SUPPLIER MANAGEMENT FOR SUSTAINABLE SUPPLY STABILITY

Engaging suppliers in a holistic and proactive supplier management strategy is central to Jungheinrich's supply stability. Existing and new suppliers are risk-classified based on ecological, economic, and social criteria. To enhance transparency among relevant suppliers, Jungheinrich conducts a sustainability self-assessment with the support of the Integrity Next platform.

Already, 700 suppliers have participated in this voluntary assessment, which covers key areas such as anti-corruption and anti-bribery, occupational safety, energy management, conflicts of interest, human and labour rights, environmental protection, and supply chain responsibility.

### Jungheinrich's Sustainability Efforts in Asia

Jungheinrich promotes energy-efficient solutions for material handling, offering customers the latest electric equipment technology and fully automated warehouse systems that consume less energy. Continuous innovation in product design at the China plant aims to make products more eco-friendly by using recycled materials.

Jungheinrich fosters sustainable living through hybrid working arrangements, allowing employees to work remotely up to 60% of the time, thereby reducing commuting-related CO<sub>2</sub>e emissions. The company encourages the use of public transport (MRT) and has initiated tree planting projects in Singapore, Malaysia, Thailand, and India. For every internal combustion truck replaced, Jungheinrich plants a tree, resulting in over 2,000 trees planted to date, with a further 2,500 trees planned in 2024 across APAC.