

Press Release

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Automated Baggage Loading Equipment

Grenzebach Automation is a leading supplier of automation solutions for airport baggage handling, providing innovative, yet reliable and efficient equipment to close the remaining automation gap between the luggage conveyor and the apron.

The Grenzebach, robot-based Automated Baggage Loading Equipment (ABLE) is a fully automated system for loading bags and suitcases into ramp carts or flight containers (ULDs). It has proved highly successful during extensive field trials at a major European airport. Among other benefits, this system will triple throughput per operator, drastically increase space efficiency and comply with workplace health & safety regulations.

The ABLE solution consists of several modules. First the baggage is analyzed and parameters such as weight, geometry and type of bag are assessed. Optionally, baggage identification via barcode or RIFD can be made. The current height profile inside the loading units is also measured. A load manager utilises this data to automatically calculate the optimum load position within the ULD/ramp cart. When loading several containers at the same time, sorting criteria such as flight destination and flight class are all taken into account. The actual loading is performed by a standard industry robot equipped with a special tool for handling bags.

The ABLE solution can be integrated as an add-on into existing baggage handling systems or form the kernel of an island solution based on new baggage handling processes.

Thanks to the modular design, the automated baggage loading system can be configured to suit any specific situation & need.

Grenzebach Automation in Karlsruhe, Germany, is part of the successful and globally active Grenzebach Group and focuses on developing technology for the automation of logistic processes. Grenzebach is a well-established manufacturer of production and handling technology for the flat glass, building material, wood veneer and other industries, with production capabilities in three continents and a professional service organization with locations in key areas around the world.