

## User report

### Laser technology creates unparalleled door safety

"This approach area protection works brilliantly!" declares Jungheinrich Moosburg who depend on the EFA-SCAN® laser scanner in order to protect highly frequented door systems.

**40 million euros invested in the future: Jungheinrich Moosburg AG & Co. KG produces warehouse and system vehicles over 23,000 square metres in its new factory. The production site in Moosburg, Upper Bavaria, combines architectural elegance with contemporary functionality. In the manufacturing area, modern structures and sophisticated processes ensure outstanding production conditions. High-speed doors from EFAFLEX are an important part of these industrial premises.**

"A total of 65 high-speed doors are installed at highly frequented entrances in order to optimise material flow to the manufacturing lines and effectively deal with the logistics transfer," Rainer Volke describes the installation locations for the doors. The engineer is responsible for all building maintenance and building management at both Jungheinrich factories in Moosburg. Combustion engine driven forklift trucks and electrical counterbalance forklifts are manufactured here. Even in the "old" factory, which is attributable to the acquisition of the Steinbock-Boss Group, high-speed doors from EFAFLEX have been doing their job for many years. "For us, EFAFLEX is the best provider on the market," says Rainer Volke. "The robust, long-lasting and quick door systems fulfil their function perfectly." Our geographical proximity to the door manufacturer is also a significant benefit for servicing. From experience, someone is always on site quickly if routine maintenance needs to be carried out. For example, with such a large number of doors installed wear parts are necessary from time to time, particularly during cold periods. It is very important that logistics routes are

reinstated promptly and any parts necessary are available quickly in order to guarantee an unlimited, efficient flow of materials and to avoid affecting the overall logistical processes. The benchmark for the whole package of products, service and spare parts is high for Jungheinrich: "In comparison with competition, EFAFLEX is noticeably strong in consulting services, very flexible technologically and offers doors and controls with absolutely individual customisation for every differing requirement, as well as offering very large dimensions," explains Rainer Volke. "In our internal logistics, for example, we need special controls for fully automated, monitored roller conveyor systems, while for the building envelope, the doors' burglary protection, wind and weatherproofing, high thermal insulation and functional reliability are all important considerations for us. We absolutely don't want to waste valuable energy. Most importantly though, our doors have to be quick and safe. By safe, we mean that the doors can still react if drivers are driving too fast." The laser scanner approach area protection is therefore installed on four of the door systems. "It works brilliantly," adds Rainer Volke. The patented EFA-SCAN® laser scanner was developed by the Efaflex engineers as the world's first laser scanner for horizontal use on high-speed doors. The compact device, easily installed in a protected location, constantly captures the entire area in front of the door and combines intelligent motion detection and reliable approach area protection into one.

EFA-SCAN® reacts quickly within the dynamic detection zone, if a moving object is detected, the scanner triggers the door to open in a fraction of a second. The geometry and logic for this detection area can be individually programmed up to a maximum of 10 x 10 metres by us, on site with a remote control. EFA-SCAN® detects every movement and at the same time also evaluates the distance, direction and speed to optimise the "pinpoint" opening impulse. However, this does not occur if vehicles or people are simply passing along the facade. Directly in front of the door the laser generates a safety field of a variably adjustable depth in which the EFA-SCAN® extensively protects the full width of the door and prevents the door from closing as soon as it detects a

moving or stationary obstacle. EFA-SCAN® therefore protects against accidents, while also prevents damage to your door. Complex software algorithms prevent the scanner from being falsely triggered by rain, snow or extraneous light. It scans the horizontal with a detection angle of 95 degrees and additionally scans the same area 6 degrees in the vertical. With 16,000 measurements every second, nothing escapes the laser scanner. The operating equipment and supplier's reliability is exceedingly important for Jungheinrich AG. As a partner which is creatively and flexibly available to its customers with vehicles and warehouse technology for flows of material and goods as well as with process advice and system solutions, the company also has to ensure that it has highly efficient logistics on its own production sites. Jungheinrich AG is one of the three biggest providers in the world in the field of industrial truck, warehouse and material flow technology. The family company is the leader in Europe in warehouse technology. Since 1953, Jungheinrich AG, with its headquarters in Hamburg, has offered products and services "surrounding forklifts". Dr Friedrich Jungheinrich laid the foundation for the company on 7 August 1953 with the founding of the "H. Jungheinrich & Co. Maschinenfabrik" in Hamburg. What began there in a small workshop in the Barmbek urban district with thirty employees has developed over the past decades into a globally active group of companies with more than 12,000 employees and an annual turnover of more than two billion euros (2013).

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