

## Challenge Making TAIL LIFTS Save

Using a tail lift system carries considerable risk. The operator needs to keep in mind the weight of the load, and where it is placed on the platform. When the operator makes a mistake in this regard, the system can easily get overloaded, and in a worst-case scenario the platform may break. The goal of this project is to define and find a sensor concept/strategy in order to reliably measure the load placed on the tail-lift and find the center of gravity for that load in order to ensure safe operation for our tail-lift systems.



## Industry Partner

**PALFINGER**

PALFINGER is an international technology and mechanical engineering company and the world's leading producer and provider of innovative crane and lifting solutions. With over 12,600 employees, more than 30 manufacturing sites and a worldwide sales and service network of around 5,000 service points, PALFINGER creates added value from the challenges of its customers. PALFINGER is consistently continuing on its course as a provider of innovative, complete solutions that deliver increased efficiency and better operability, while leveraging the potential of digitalization along the entire production and value chain.

PALFINGER AG has been listed on the Vienna stock exchange since 1999, and in 2021 achieved record revenue of EUR 1.84 billion. In 2022, PALFINGER celebrates its 90th anniversary under the tagline "Celebrating the future since 1932".

## Mission Define and prototype a sensor concept to

- ▶ Measure the load placed on the platform
- ▶ Evaluate the center of gravity of the load

