

Assisted Docking System

Safe and efficient docking operation



The Assisted Docking System is an aircraft damage prevention system designed to enhance docking safety and efficiency. The system assists the driver in the safe aircraft approach and docking of the Rollertrack Conveyor onto the aircraft door sill. It is based on advanced LiDAR technology and complies with IATA AHM 913 standards.

Aircraft Protection

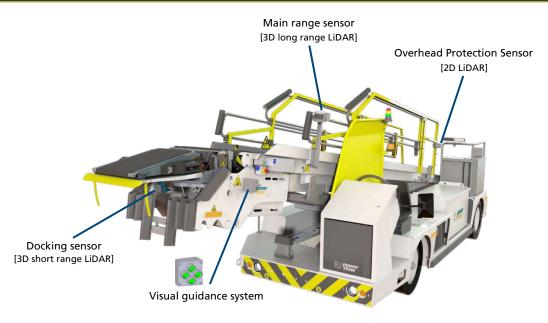
- Reduces risk of incidents of costly damage to the aircraft and GSE equipment
- Utilizes LiDAR technology to detect obstacles, minimizing the risk of damage to aircraft during docking and taxiing, and ensuring a precise docking procedure
- Automatically adapts the speed of the vehicle as it approaches the aircraft and activates braking upon complete docking

Operational Efficiency

- Improves operational efficiency by minimizing delays caused by docking incidents
- Ensures a faster and smoother docking operation by assisted guidance
- Helps enforce correct approach and aircraft docking procedures
- Simplifies the approach process and reduces training time required for drivers

Enhanced Safety for Personnel

- Provides guidance to the driver, easing the approach and docking process, and thereby reducing stress on personnel
- Creates a safer working environment by minimizing the risk of accidents involving ground personnel



Specifications

LiDAR sensors:	The system uses advanced laser technology to provide a detailed, three-dimensional view of the surroundings ahead and the aircraft fuselage. These sensors detect obstacles and provide a precise measurement of the environment to ensure enhanced protection during the docking procedure. The technology offers strong performance in a wide variety of lighting and weather conditions.
Control units:	The system uses several control units (computer, I/O module, PLC) to process data from the sensors and make real-time decisions to ensure safe and efficient driving.
Movement speed:	6m to 2m distance to obstacle = 6 km/h to 0.8 km/h
	2m to 0.2m distance to obstacle = 0.8 km/h to 0.36 km/h
	< 0.2 m distance to obstacle = 0.36 km/h
Compatibility:	Compatible with the most common narrow-body aircraft types
Key features:	Autonomous Emergency Brake (AEB)
	Guidance System
	Overhead Obstacle Protection
	Turning Collision Prevention
	Automatic Brake Tests
	Collision Registration and Logging System
	Automated Sensor Calibration
	Automatic Speed Reduction

Contact

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