



Introducing SmarTruck

The Smart, Modular Forklift
Fleet Management System



SmarTruck provides continuous, real-time data on the utilization, activity, and status of forklifts and other vehicles involved in material-handling processes.

smartruck.pozi.tech

What Our Clients Say About the Benefits of SmarTruck

Audi Hungary has successfully integrated PoziTech's SmarTruck system, leading to significant advancements in our forklift fleet management. This partnership has yielded improved operational efficiency and substantial financial savings.



Balazs Horvath, Forklift Fleet Manager
Audi Hungary

We have implemented PoziTech's SmarTruck system across our heterogeneous forklift fleet in one of our major factory logistics center in 2023. The system has been instrumental in optimizing our fleet management, providing valuable data and statistics.



Connected Hub, Hatvan, Hungary
Robert Bosch Electronics

We are very satisfied with the SmarTruck system that we use for managing our forklift fleet. Its web application allows us to efficiently monitor the utilization of our forklift fleet and easily track which forklift is in use.



Barnabas Bihari, Warehouse Manager
Heineken Hungary

PoziTech's proficiency in industrial monitoring and tracking is reflected in a robust, well-engineered fleet management system. PoziTech's ability to rapidly customize solutions to diverse business needs is particularly notable.



Sandor Veress, Business Development Expert
Magyar Telekom (Deutsche Telekom Group)

Last year, the SmarTruck system enabled us to launch a substantial new operation by efficiently reallocating our existing fleet. This strategic move eliminated the necessity of purchasing additional forklifts, yielding significant savings.



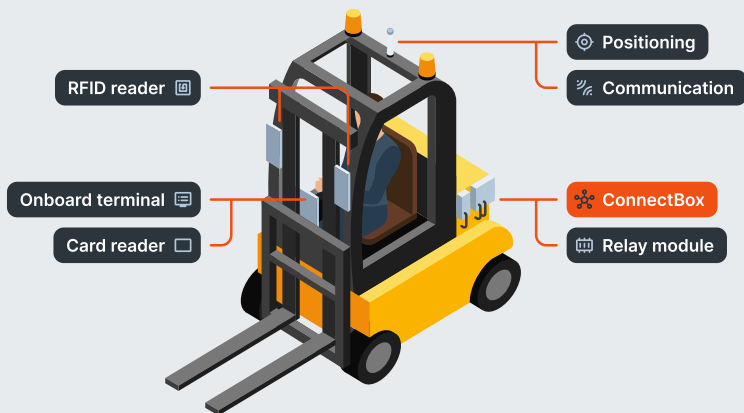
Balazs Buki, Technical & Forklift Fleet Manager
WSZL (Waberer's Group)

Put SmarTruck to Work for You

- *Improve efficiency and track fleet utilization*
- *Ensure fewer collisions and accidents*
- *Save energy with eco-friendly fleet use*
- *Reduce operating and maintenance costs*
- *Enable centralized online access control*
- *Optimize any fleet by size, type, and location*

Components

Discover the components, modules, and the customizable structure of the PoziTech SmarTruck Fleet Management platform. Its modular components can be retrofitted onto any type of forklift, accommodating heterogeneous fleets.



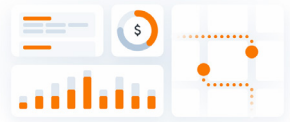
ConnectBox is the central component of SmarTruck. It handles data processing, communication, positioning, and also includes interfaces for various add-on components:

- **Card reader** for operator identification
- **Relay module** to enable start-up authorization and automatic speed limitation
- **RFID reader** for goods identification
- **Positioning** module for indoor positioning
- **Onboard terminal** for task management and navigation

Modules

Core Features

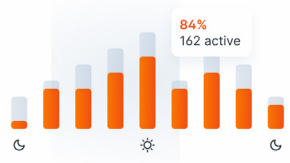
SmarTruck is designed for vendor independence, ensuring its core fleet management features are compatible with any forklift model and software.



- On premise, private cloud or cloud
- Web based user-friendly software specified to operation managers
- Automatic collection of data (no display required for core features)
- Integrated hardware, software and technology from one provider
- Works with hundreds of end user hardware brands and types
- Processing compliant with multinational IT requirements

Forklift Utilization

Produces precise reports on the utilization of the forklift fleet, which enable the identification of peak periods, as well as resource reserves and bottlenecks.



- Real-time status monitoring
- Reports on forklift utilization (individual and fleet level)
- Calculations in daily / weekly / monthly breakdown
- Identification of peak periods
- Optimization of fleet size and forklift types

Operator Authentication & Permissions

Local ID card-based operator identification and forklift authorization based on an access matrix. Data linked to operators ensure motivation and accountability.

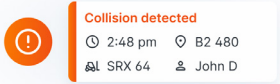
	🔒 SRA 24	🔒 SRX 40	🔒 SRX 64
👤 John D	✔️	✔️	✔️
👤 Dave H	✔️	✔️	❌
👤 Mark A	✔️	❌	❌

- Real-time operator activity and monitoring
- Reports on login / ignition / moving / inactive hours
- Operator performance reports (worklog / collisions)
- Forklifts will start only after authentication with local ID card
- Operator permissions checked at each authentication
- Set permissions & protocols for each forklift in your fleet remotely

Modules

Alerts & Collision Detection

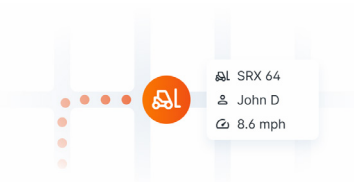
Customizable alerts are based on any operational metrics, detection of collisions and other incidents, and immediate notifications.



- Configurable email / sms alerts for various events
- Easy to use editor, different settings for different roles
- Collisions identified with built-in accelerometer
- Automatic collision log and alerts
- Forklift functionalities can be limited if required
- Detailed statistics and reports

Forklift Tracking

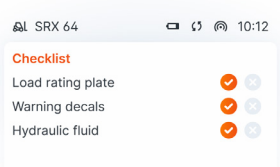
Features continuous, automatic tracking of each forklift's physical position with presence detection or coordinate positioning, both outdoors and indoors.



- Presence detection: proximity positioning with UWB / BLE / WiFi
- Indoor positioning with UWB using a locally deployed infrastructure
- Outdoor positioning with GNSS and precise RTK on request
- Current position and covered route can be tracked and mapped
- Heatmaps, spaghetti diagrams, location-based statistics
- Geofencing and location based zones limitation and monitoring

Forklift Logbook

Digital forklift logbook for effortless completion of the daily forklift pre-operation inspection checklists, supplemented with relevant operational data.



- Accurate logging records the time of completion and operator details
- Forklift operation is restricted until the completion of safety check
- Accountability assigns objective responsibility to operators
- Optional photo documentation of faults and damages
- Available on the onboard terminal or handheld mobile devices (even in offline mode)
- Customizable checklists to meet specific requirements

Extensions

Goods Identification

The system identifies goods on the forklift's fork, displaying details on the terminal and logging all movements for the indirect positioning of goods.

Item identified
Confirm pickup

MI-0024

02042024-0842
SN AA0024E

980 kg

- Identification of goods on the forklift displayed on the onboard terminal
- Identification by manually scanning the QR or barcode printed on the goods
- Automatic identification using the RFID tag attached to the goods and the RFID antennas and RFID reader mounted on the forklift
- Goods Identification combined with forklift tracking extension allows indirect positioning and automatic movement logging

Task Management

Manual or automatic allocation of various movement tasks, clear and traceable task assignment, proactive support for forklift operators in task execution.

↑ A4 240

↓ B2 480

MI-0024
980 kg

↓

↑

- Allocation and control of various movement tasks
- Task assignment directly from the ERP / WMS system
- List of waiting tasks is displayed on the onboard terminal
- Demand-driven task assignment via pushbutton unit
- Clear, traceable communication between line workers and trucks
- The system can help the operator with alerts to perform tasks accurately

Fleet Management

Detailed and accurate overview of the forklift fleet's condition, activity, and costs, including comprehensive operational and maintenance logs.

SRA 24

82%

SRX 40

48%

SRX 64

24%

- Accurate statements of all operating and maintenance costs for the entire truck fleet: consumption, service and parts costs, etc.
- Detailed and accumulated cost data per truck, per vendor, or for the entire fleet
- Full maintenance and service log, forecasting of maintenance due
- Optional direct connection to the truck via the ConnectBox CAN bus interface

SafeTruck

Environmental Health and Safety by PoziTech



SafeTruck by PoziTech enhances warehouse safety using wearable technology and transmitters on forklifts.

The transmitters continuously scan the distance of nearby wearable tags. When set limits are reached, the system automatically alerts the operator and the pedestrians nearby, and limits the movement of the machines according to predefined protocols.

As part of the solution, points, routes and areas can be designated with SafePosts, and predefined protocols can be applied to the machines (speed reduction, stop, etc.).

- *Accident and collision prediction and avoidance*
- *Visual and audible warnings for dangerous proximity*
- *Adaptive sensitivity based on direction and speed*
- *Optional integration and intervention in vehicle control, including speed limitation in designated safety zones*
- *Parameterizable two-level warnings - yellow, red - depending on distance*
- *PoziTech's advanced geospatial software allows complex and dynamic protocols that ensure the realization of applied EHS regulations*

SafeTruck is implemented as a stand-alone system or as a module of the SmarTruck system.



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