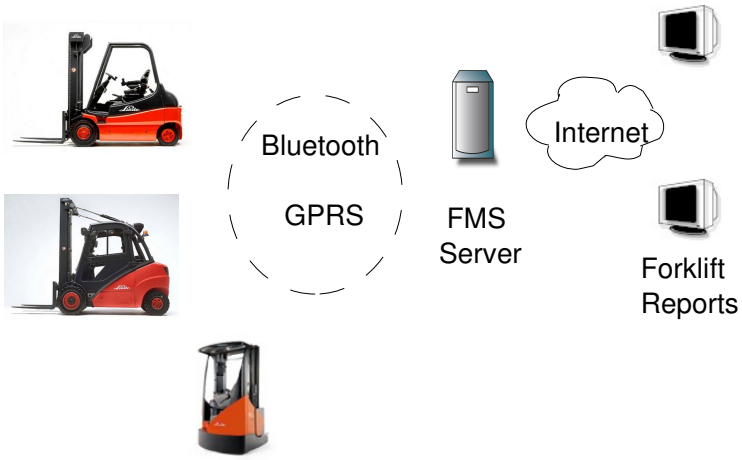
ORCA™ Truck Fleet Management



- Truck Fleet Management Information System
- Fleet Owner's Tool to Achieve Savings
- Remote Control of Fleet
- Better Awareness over Costs and Utilization
- Designed for Industrial Trucks to Increase Operating Efficiency of Fleet

New Fleet Management Tool - Savings with Remote Analysis

ORCA™ is a new modern tool to remotely analyze the way your trucks are used. Knowing more of how your trucks are used helps to achieve better control over costs and the utilization of the fleet. Increased awareness makes it easier to take measures to improve performance and helps to drive for savings and optimizations.

ORCA™ Fleet Management System - Get Information on Your Screen

ORCA™ gives you information on your trucks, such as how effectively they are in use, and whether the machines are subject to impacts or collisions possibly adding to repair costs or breaks causing trucks being off duty. Get fleet and truck information on your PC using only Internet browser.

Fleet and truck information

- Utilization rate, remote hours
- Activity rate
- Shock sensoring
  - Amount and spread of shocks by strength
  - Detailed list of impacts with strength and time of occurrence
- Spread of activities and status of activities over time (move forward/backwards, fork up/down)

Information collected from trucks

- Working time
- Activity time
- Activities (up to 4)
  - Pumpmotor/drivemotor, forward/backwards/fork up/forkdown
  - Detailed list of impacts with strength and time of occurrence

Driver Recognition, Basic - *Optional*

Driver Recognition adds the following on a basic level

- Fleet and truck information and reports include driver identification
- Driver data is collected and related with activites
- Driver identification, access control, and enabled drive of a truck

Driver Recognition, Advanced - *Optional*

Driver Recognition adds the following on an advanced level

- Fleet and truck information and reports include driver identification
- Driver data is collected and related with activites
- Driver identification and access control with a PIN code, and PIN code enabled drive of a truck
- Special usage times are collected (e.g. truck repair of maintenance time, etc., PIN-coded)
- Verification of truck specific authorized drivers

Usage Monitoring - *Optional*

Usage Monitoring adds the following

- Energy consumption (electric trucks) is measured and shown
- Driving distance is measured and shown
- Driving speed is measured and shown
- Measurement and reporting of additional actions (reach, side shifts, tilt, handbrake , ...)

Maintenance Module - *Optional*

Usage Monitoring adds the following

- Reminding of next maintenance activity based on cumulative activity hours
- Estimation of time required for maintenance based on actual usage
- Maintenance and repair history; date, next interval, person in response, actions performed, notes ,..

ORCA™ Technical Issues

Fleet Management System is based on advanced and up-to-date technology, i.e.

- wireless communication (GPRS, Bluetooth) with central server, information shown on the Internet
- Platypus™ terminal device mounted on each truck, delivered with installation cables and antenna
  - collects data from trucks electronically

  Note that there are separate GPRS and Bluetooth models of Platypus™ and that separate gateway unit is required with the latter (Bluetooth short range communication network)

Optional modules are delivered with required software and including the following

- Driver Recognition, Basic: Reader device (iButton), installation cables, drive prohibition relay
- Driver Recognition, Advanced: Reader (rfid, PIN),), installation cables, drive prohibition relay
- Usage Monitoring: Electric current sensor, installation cables
- Maintenance Module: Software only